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# DATALOGIC: SOLUTIONS FOR INDUSTRIAL AUTOMATION

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Datalogic Industrial Automation is an industry-leader in products and solutions for material handling, traceability, inspection and detection applications.

With the acquisitions of Accu-Sort and PPT Vision in 2012, the company offers a comprehensive portfolio of products, technologies and solutions delivered by a team of skilled professionals dedicated in providing superior service to customers.

Datalogic is the partner of choice for organizations in the Industrial Automation market.

### Manufacturing

- AUTOMOTIVE
- ELECTRONICS
- FOOD & BEVERAGE
- GENERAL MANUFACTURING
- HEALTHCARE PHARMACEUTICAL

### **Transportation & Logistics**

- AIRPORTS
- COURIER, EXPRESS PARCEL (CEP)
- POSTAL
- RETAIL DISTRIBUTION

### Product portfolio

Datalogic Industrial Automation has the most comprehensive offering of products and solutions for traceability, inspection and detection applications in factory automation and logistics processes: industrial LASER scanners, cameras and vision systems, sensors, machine safety devices and LASER markers.

### Identification

Even the most demanding and efficient automation of identification processes can leverage Datalogic Industrial Automation's leadership in the market. We manufacture the world's most comprehensive family of fixed-mount line and omnidirectional scanners.

We also offer the latest CCD vision technology with the world's largest installed base of CCD systems for bar code reading and dimensioning.

All of our AUTO-ID products and solutions leverage the broadest decoding library that has been developed through the years. Datalogic's comprehensive AUTO-ID portfolio is used in a wide range of applications and machines which are behind many of the everyday processes that keeps the global economy running.

# Sensors & Safety

Datalogic Industrial Automation offers a best-in-class, comprehensive product portfolio of photoelectric and proximity sensors, rotary encoders, temperature controllers and measurement devices, as well as type 2 and type 4 safety light curtains. These product lines provide solutions for applications involving color, contrast and luminescence, label detection, dimensional and distance measurement, in addition to machine safeguarding and access control in dangerous areas.

### Machine Vision

The Datalogic Industrial Automation machine vision product line encompasses both hardware and software while covering a wide range of performance and price point requirements. The vision portfolio of products and solutions ranges from standalone compact smart cameras to the highest performance embedded processors.

### Laser Marking

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Laser Marking sources and systems provide value driven marking solutions for automotive, metal tools, medical, electronics and packaging. Datalogic Industrial Automation offers an extensive range of state-of-the-art technology, excellent performance and high reliability marking equipment.

#### Inductive Sensors

Inductive proximity sensors generate a magnetic field from their detection faces. Whenever a detectable object moves into the sensor's field of detection, Eddy currents build up in the target and dampen the sensor's magnetic field. This effect triggers the sensor's output. Since a current in the target is needed for detection, inductive proximity sensors are uniquely suited for detection of all types of metals.

#### ADVANTAGES

- -Not affected by humidity and dust
- -No moving parts, no mechanical wear
- -Independent of the color of the object to detect
- -No dead zone

### DISADVANTAGES

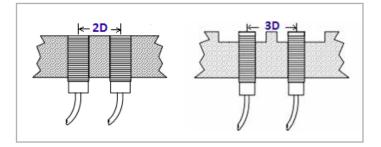
- -only detect metallic objects
- -low operating distance
- -sensitive to electromagnetic interference (such as electric welding, induction ovens)
- (such as electric weiding, induction overs

#### Shielded models - FLUSH mounting

Shielded models can be installed with their sensing faces flush to the metal. The distance from opposing metal surfaces must be  $\geq$  3sn and the distance between two proximity switches (side-byside)  $\geq$  2D.

#### Unshielded models - NON-FLUSH mounting

Unshielded models can be identified by their 'caps", since they have no metal housing surrounding the area of the sensing face. The sensing face must extend ≥ 2sn from the metallic installation medium. The distance from opposing metal surfaces must be ≥ 3sn and the distance between two adjacent proximity switches ≥ 3D. The metal body leaves uncovered part of the sensing area resulting in an increased sensing distance.



Main tubular models are available in both nickel plated brass and stainless steel housing, with the active sensing face in LCP plastic.

#### METAL FACE version:

Are available stainless steel versions (M12,M18).

Are used in especially harsh environments and applications which are too extreme for standard sensors. They resist to abrasive media, aggressive cleaners and solvents with their rugged sensing face. IP67 protection.

#### WELD FIELD IMMUNE version:

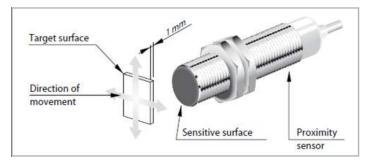
These special field immune models are ideal for welding environments and other applications where large magnetic fields are present. They are rated for reliable operation near the current line carrying 20,000 amps.

#### NAMUR version:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers. The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection.

#### Nominal Switching distance (Sn) According to EN 60947-5-2

When an inductive proximity sensor is rated for sensing distance, it refers to the sensor's ability to detect the 'standard detectable object" at its specified sensing distance. The 'standard detectable object" is a 1mm thick square piece of ferrous iron that is in height and width the size of the proximity sensor's detection face's diameter.

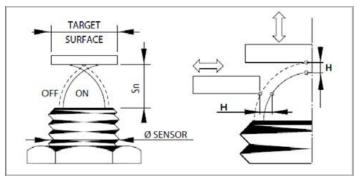


When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

REDUCTION FACTOR	
Fe37	1 x Sn*
Stainless Steel AISI316L (X2CrNiMo17-12-2, UNI EN 10088-3)	0,9 x Sn
<b>Brass-Bronze</b> (CuZn33, UNI EN 12163:1999)	0,5 x Sn
<b>Aluminum (25°C)</b> (EN AW-1060, UNI EN 573-3:2006)	0,4 x Sn
Copper (Cu-DHP, UNI EN 1652:1999)	0,3 x Sn

#### Hysteresis (H):

distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



#### AC/DC version:

Are available 2/3-wires versions (M12, M18, M30) , that operate in alternating current with voltage drop of 5 V for currents of the order of 100mA.

To be able to provide a proper potential drop at the load, it is recommended to power the sensors with at least a supply voltage equal to the Voltage drop indicated (5V).



The Stainless Steel series is rated IP69K.

# **OPERATING DISTANCE**

MODEL	M4	M5	M6,5	M8	M12	M18	M30	SQUARE
DIAMETER (mm)	4	5	6,5	8	12	18	30	8X8; 40X40
OPERATING DISTANCE (mm)	0,8	0,81,5	13	1,53	28	514	1020	1,530

# HOUSING LENGTHS

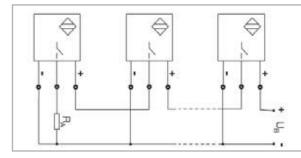
The following table shows the approximate length (mm) intervals for all categories and models of tubular inductive sensors.

MODELS	STAN	DARD	SHORT	
MODELS	connector	cable	connector	cable
M4		25		
M5	40	2025		
M6,5	5363	4655	5054	4044
M8	5273	4455	4857	4044
M12	6872	5864	4854	4248
M18	7382	7078	5665	4756
M30	7485	7082	5668	4956

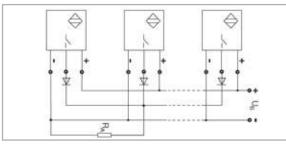
### WIRES

ТҮРЕ	description
	Work with sinking or sourcing devices
2-3 WIRES	Vdc, Vac and NAMUR versions
	Higher leakage current
	Must select PNP or NPN, NC or NO version
3 WIRES	10-30 Vdc version
	Low leakage current
4 WIRES	Programmable output
	PNP/NPN and NC/NO in one device

The number of inductive proximity sensors that can be connected in series or parallel is limited.



Parallel connection: the leakage current of each single sensor, when added to the other, may accumulate and drive the load even in the absence of operated switches.



This problem is more relevant in versions AC 2-wire, because of the high voltages and currents supplied to the sensor. For this type of connection you should use a 3-wire sensors working in DC.

### ELECTRICAL PARAMETERS

NOMINAL VOLTAGE

Is the permissible voltage range in which certain safe operation of the switch is guaranteed.

#### RESIDUAL RIPPLE

Is the maximum admissible ripple of the DC supply voltage shown as percentage to its medium value.

### MAX. OUTPUT CURRENT

It shows maximum output current a sensor can cope with when working steadly.

# MIN. OUTPUT CURRENT

Is the smallest load current required for function of the switch when ON.

#### RESIDUAL CURRENT

Is the current flowing through the load when a proximity switch is not conducting (open).

#### VOLTAGE DROP

Is the voltage measured across the load of a closed (conducting) sensor at load current.

### START UP DELAY

Is the time from when the supply voltage is applied, and the proximity switch assumes the ready state. This time may not be longer than 300 ms. During this time there must be no fault signal longer than 2 ms.

SWITCHING FREQUENCY Refers to the maximum number of switching operations per second.

### SHORT CIRCUIT PROTECTION

Is 100 A, i. e., per EN 60947-5-2 the power supply during testing in short circuit mode must be able to provide at least 100 A for a short duration. This current is prescribed in the standard in order to test.

#### PROTECTION AGAINST INVERSION OF POLARITY

Available in DC supplied type, it prevents the sensor from being damage when supply cables are incorrectly connected.

INDUCTIVE LOAD PROTECTION It protects sensor output in presence of high inductive loads. This protection is performed by a diode or zenner diode.

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# INDEX

#### BASIC

#### Nickel-plated Brass housing

- LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance: 1,5 ... 20 mm 11
- M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector .
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC
- IP67 protection ÷

#### **INDUCTIVE AC**

- Nickel-plated Brass housing
- PA 16 active face 11
- Standard length .
- Operating distance 2 ... 10 mm
- M12, M18, M30 .
- cable or M12 connector ь.
- 20+250 Vac (50,60 Hz)
- 2 or 3 wires d.
- ч. NO
- IP67 protection н.

### STAINLESS STEEL

08

- Stainless Steel housing
- M4, M5 POM active face M6,5, M8, M12, M18, M30 LCP active face

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60

- Standard length ÷
- Short length
- Normal and Double range Operating distance
- Operating distance 0.8 ... 20 mm .
- cable, M8 or M12 connector
- 3 wires н.

NAMUR

- PNP, NPN, NO, NC .
- IP69K protection

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### Nickel-plated Brass housing

- LCP active face
- Short length ÷.
- Operating distance 0.8 ... 15 mm
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO
- IP67 protection

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# M4

- flush
- Stainless Steel
- op.dist.: 0,8 mm - diameter: 4 mm
- 3 wires
- PNP or NPN, N.O.
- cable

**M5** 

- flush - Stainless Steel
- op.dist.: 0,8 mm
- double range vers.:
- 1,5 mm - diameter: 5 mm
- 3 wires
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M8 connector or
- cable

# M6.5

- flush, non-flush - Stainless Steel, Nickel
- plated-Brass
- op.dist.: 1,5...2 mm
- double range vers.: 2...3 mm
- diameter: 6,5 mm
- standard or short housing - 3 wires
- NAMUR (2wires) vers. - PNP or NPN, N.O., N.C.
- M8 connector or cable

# **M8**

- flush, non-flush
- Stainless Steel, Nickel
- plated-Brass - op.dist.: 1,5...2 mm
- double range vers.: 2...3 mm
- diameter: 8 mm
- standard or short housing
- 3 wires - NAMUR (2wires) vers.
- - PNP or NPN, N.O., N.C. - M8, M12 connector or cable
- Metal Face vers. - NAMUR vers.

mm

- Field Immune vers.

- Vac/Vdc vers.

M12

- flush, non-flush

plated-Brass

- op.dist.: 2...4 mm

- diameter: 12 mm

- Stainless Steel, Nickel

- double range vers.: 4...8

- standard or short housing

NPN/PNP output) wires

- 2, 3, 4 (programmable

- PNP or NPN, N.O., N.C.
- M12 connector or cable

<sup>6</sup> ACS1 23 rue Lavoisier 69680 CHASSIEU TEL: 04 78 20 07 82 Mail: contact@acsi-lyon.com

- M4, M5, M6,5, M8, M12, M18, M30

#### METAL FACE

- Stainless Steel housing
- Stainless Steel AISI 303 active face
- Stainless Steel active face
- Standard length
- 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

#### SQUARE

- PBT (resin) or Nickel-plated Brass housing
- Operating distance 1.5 ... 15 mm
- 40x40 mm or 8x8 mm dimension
- cable, M8 connector or Terminal Block
- 2 or 3 wires
- PNP, PNP/NPN, NO, NC, NO/NC
- IP67

#### WELD FIELD IMMUNE

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- Stainless Steel housing
- PTFE active face
- Standard length
- Operating distance 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

#### CAPACITIVE

- Nickel plated brass
- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (SPDT relay)
- Operating distance: 5...25 mm
- Cable or M8 connector
- 2,4,6 wires
- PNP or NPN, N.O. and N.C. outputs, SPDT relay
- Delay ON or delay OFF model
- IP67 protection

CABLES, CONNECTORS & ACCESSORIES

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# M18

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 5...8 mm
  double range vers.: 8...14 mm
- double range vers.: 8.
  diameter: 18 mm
- standard or short housing
- 2, 3 4 (programmable NPN/PNP
- output) wires - Vac/Vdc vers.
- Metal Face vers.
- Field Immune vers.
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.

# **M30**

- flush, non-flush
- Stainless Steel, Nickel plated-Brass

Standard States of St

- op.dist.: 10...15 mm
- double range vers.: 15...20 mmdiameter: 30 mm
- standard or short housing
- 2, 3, 4 (programmable NPN/PNP
  - output) wires
- Vac/Vdc vers.
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.
- Capacitive Multivoltage with timer relay output

# **SQUARE 40X40**

- flush, non-flush
- standard or short housing
- Plastic (PBT resin)
- op.dist.: 15...30 mm; 7-20 mm (Analog vers.)
- diameter: 40 mm
- 2, 3 wires
- Vac/Vdc vers.
- Analog output 4-20mA vers.
- PNP or NPN, N.O., N.C.
- Terminal block

# **SQUARE 8X8**

- flush
- Nickel-Plated Brass
- op.dist.: 1,5 mm
- diameter: 8 mm
- 3 wires, PNP, N.O.
- M8 connector or cable

# 50

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# **BASIC**

Nickel-plated Brass housing LCP active face Standard length Short length Normal and double range operating distance Operating distance: 1,5 ... 20 mm M6,5, M8, M12, M18, M30 cable, M8 or M12 connector 2, 3 or 4 wires PNP, NPN, PNP/NPN, NO, NC, NO/NC IP67 protection

REDUCTION FACTOR

ALUN	/INUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

# 

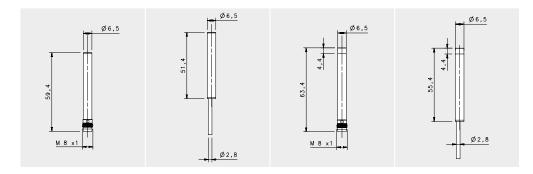
"M12/18/30 models are Diversey and ECOLAB tested"





# BASIC M6.5

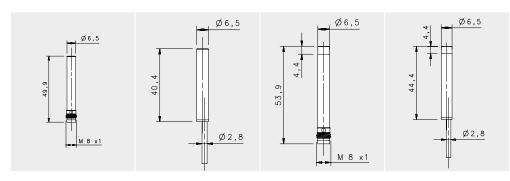




				STANDARD				
				FLU	SH	NON F	LUSH	
				M8 conn	cable	M8 conn	cable	
NOMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm	2 mm	2 mm	
10-30 Vdc	PNP/NPN	4 wires						
10-50 Vac	NO-NC	4 WIIC5	order No.					
10-30 Vdc	PNP	3 wires		IS-65-A1-S1	IS-65-A1-03	IS-65-C1-S1	IS-65-C1-03	
10-50 Vul	NO	5 WIIES	order No.	95B066050	95B064730	95B066210	95B064890	
10-30 Vdc	PNP	3 wires		IS-65-A2-S1	IS-65-A2-03	IS-65-C2-S1	IS-65-C2-03	
10-50 Vul	NC	5 WILES	order No.	95B066090	95B064770	95B066250	95B066300	
10-30 Vdc	NPN	3 wires		IS-65-A3-S1	IS-65-A3-03	IS-65-C3-S1	IS-65-C3-03	
10-50 Vul	NO	5 WILES	order No.	95B064970	95B064650	95B066130	95B064810	
10-30 Vdc	NPN -	NPN	3 wires		IS-65-A4-S1	IS-65-A4-03	IS-65-C4-S1	IS-65-C4-03
10-30 Vac	NC	3 wires	order No.	95B066010	95B064690	95B066170	95B064850	
10-30 Vdc	PNP	(						
10-30 Vac	NO-NC	4 wires	order No.					
10 20 \/d-	NPN	4 wires						
10-30 Vdc	NO-NC		order No.					
10-30 Vdc	NO-NC	- ·						
10-30 Vac	NU-NC	2 wires	order No.					
20.250\/aa/\/da	NO	2						
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac7 Vuc	NC	2 WIIes	order No.					
20-250 Vac	NO	2/3wires						
20-200 Val	NU	2/ 3 WILES	order No.					
10-30 Vdc	Analog	3 wires						
10-50 Vul	0-20 mA	5 WILES	order No.					
NAMUR amplifier	NAMUR	2 wires						
NAMOR AMPIMER	NANUR	2 wires	order No.					

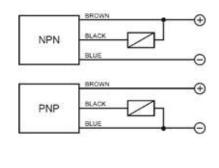
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mm	200 mA	200 mm	200 mA
Min. Output Current				
Residual Current	< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (l=100 mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		3x 0,14 mm²		3x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active Face	LCP	LCP	LCP	LCP
Tightening torque				
Weight - Cable Output		80 g		80 g
Weight - Connector Output	40 g		40 g	





	SH	ORT	
FLI	JSH	NON F	LUSH
M8 conn	cable	M8 conn	cable
1,5 mm	1,5 mm	2 mm	2 mm
IS-65-B1-S1	IS-65-B1-03	IS-65-D1-S1	IS-65-D1-03
95B066070	95B064750	95B066230	95B064910
IS-65-B2-S1	IS-65-B2-03	IS-65-D2-S1	IS-65-D2-03
95B066110	95B064790	95B066270	95B064950
IS-65-B3-S1	IS-65-B3-03	IS-65-D3-S1	IS-65-D3-03
95B064990	95B064670	95B066150	95B064830
IS-65-B4-S1	IS-65-B4-03	IS-65-D4-S1	IS-65-D4-03
95B066030	95B064710	95B066190	95B066190
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
	80 g		80 g
40 g		40 g	





# M8 3 pole

CONTACTS CONFIGURATION

 Available
 Contacts numbers

 Income
 numbers

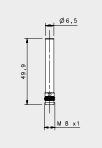
 NPN/PNP
 +
 NOINC

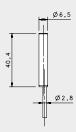
# BASIC M6.5



Weight - Cable Output

Weight - Connector Output





80 g

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# SHORT X2

				FLUSH		
				M8 conn	cable	
NOMINAL SWITCH	HING DISTAN	CE		2 mm	2 mm	
40.001/1	PNP/NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
	PNP			IS-65-G1-S1	IS-65-G1-03	
10-30 Vdc	NO	3 wires	order No.	95B066060	95B064740	
	PNP			IS-65-G2-S1	IS-65-G2-03	
10-30 Vdc	NC	3 wires	order No.	95B066100	95B064780	
	NPN	<b>_</b> .		IS-65-G3-S1	IS-65-G3-03	
10-30 Vdc	NO	3 wires	order No.	95B064980	95B064660	
10.001/1	NPN	<u> </u>		IS-65-G4-S1	IS-65-G4-03	
10-30 Vdc	NC	3 wires	order No.	95B066020	95B064700	
	PNP					
10-30 Vdc	NO-NC	4 wires	order No.			
	NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			order No.			
20-250 Vac	NO	2/3 wires	order No.			
	Analog 0-20 mA		order No.			
10-30 Vdc			order No.			
			order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Curre	nt			200 mA	200 mA	
Min. Output Curre						
Residual Current				< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Freque	ncv			500 Hz	500 Hz	
Start Up Delay	iicy			< 75 ms	< 75 ms	
Repeatability				< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Tomporature Li-						
Temperature Limit				(-25 +70 °C) IP67	(-25 +70 °C)	
Protection Degree					IP67	
Cable Length					2 m	
Cable Section					3 x 0,14 mm <sup>2</sup>	
Housing Material				Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	
Tightening torque						
wordt Cable Out	tout				90 <i>a</i>	

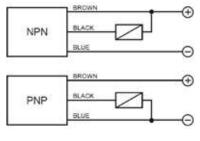
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40 g

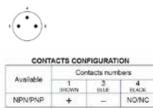


SH	IORT X 2	
	ION FLUSH	
M8 conn	cable	
3 mm	3 mm	
		-
IS-65-H1-S1	IS-65-H1-03	
95B066220	95B064900	
IS-65-H2-S1	IS-65-H2-03	
95B066260	95B064940	
IS-65-H3-S1	IS-65-H3-03	
95B066140	958064820	
IS-65-H4-S1	IS-65-H4-03	
95B066180	95B064860	
		2
		3
		Г
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
< 10%	< 10%	
< 10%	< 10%	
200 mA	200 mA	1.1
< 10 mA	< 10 mA	
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Yellow	Yellow	
500 Hz	500 Hz	
< 75 ms	< 75 ms	
< 3%		M
Present (self-resetting)	Present (self-resetting)	101
Against polarity reversal inductive loads	Against polarity reversal inductive loads	
(-25 +70 °C)	(-25 +70 °C)	
IP67	IP67	
	2 m	
	3 x 0,14 mm <sup>2</sup>	
Nickel-plated brass LCP	Nickel-plated brass	
	LCP	
	 80 g	
 40 g		
۵ <sup>۵</sup> ۲		-

### wires PNP or NPN

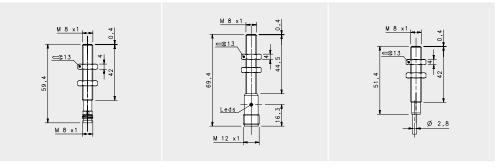


### /I8 3 pole



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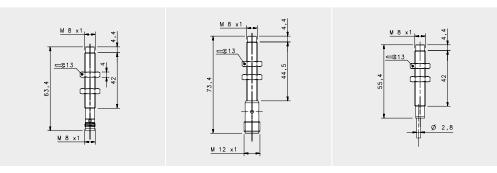




					STANDARD	
					FLUSH	
				M8 conn	M12 conn	cable
IOMINAL SWITCH	HING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.	IS-08-A1-S1 95B061141	IS-08-A1-S2 95B061131	IS-08-A1-03 95B061121
10-30 Vdc	PNP	3 wires	order No.	IS-08-A2-S1 95B061171	IS-08-A2-S2 95B061161	IS-08-A2-03 95B061151
10-30 Vdc	NPN NO	3 wires	order No.	IS-08-A3-S1 95B061081	IS-08-A3-S2 95B061071	IS-08-A3-03 95B061061
10-30 Vdc	NPN NC	3 wires	order No.	IS-08-A4-S1 95B061111	IS-08-A4-S2 95B061101	IS-08-A4-03 95B061091
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			

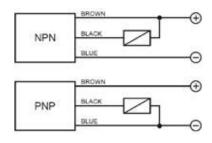
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	4Nm	4Nm	4Nm
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	





	STANDARD	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C1-S1	IS-08-C1-S2	IS-08-C1-03
95B061541	95B061531	958061521
IS-08-C2-S1	IS-08-C2-S2	IS-08-C2-03
95B061571	95B061561	95B061551
IS-08-C3-S1 95B061481	IS-08-C3-S2 95B061471	IS-08-C3-03 95B066410
IS-08-C4-S1	IS-08-C4-S2	IS-08-C4-03
95B061511	95B061501	95B066450
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g
35g	55g	



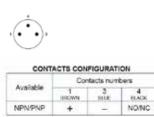


# M12 3 pole



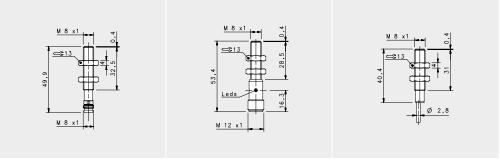
Available		Contacts	numbers	1.0
	1	2	3	4
(NO or NC)	+		100	NOINC

### M8 3 pole



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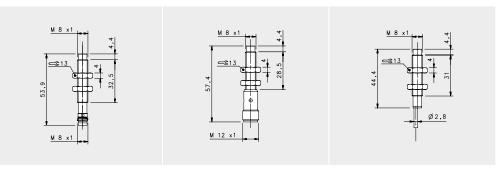




					SHORT		
					FLUSH		
				M8 conn	M12 conn	cable	
OMINAL SWITCH	ING DISTAN	Œ		1,5 mm	1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN	4 wires					
10-50 Vuc	NO-NC 4 WITES	NO-NC 4 WITES	order No.				
0-30 Vdc	PNP	3 wires		IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03	
0-50 Vul	NO	0 <sup>3 wires</sup>	order No.	95B066860	95B066590	95B061921	
0.20.Vdc	30 Vdc PNP NC	3 wires		IS-08-B2-S1	IS-08-B2-S2	IS-08-B2-03	
0-50 Vul		5 WIIES	order No.	95B066890	95B066620	95B061951	
0-30 Vdc	NPN	3 wires		IS-08-B3-S1	IS-08-B3-S2	IS-08-B3-03	
0-50 Vuc	NO	order No.	95B066810	95B066530	95B061861		
0-30 Vdc	NPN	3 wires		IS-08-B4-S1	IS-08-B4-S2	IS-08-B4-03	
0-50 Vuc	NC	5 WIIES	order No.	95B066830	95B066560	95B061891	
0-30 Vdc	PNP 4 wires		/ wiroc				
0-30 Vuc	NO-NC	4 WIIES	order No.				
0-30 Vdc	NPN	4 wires					
0-50 Vul	NO-NC	4 WIIes	order No.				
0-30 Vdc	-30 Vdc NO-NC	2 wires					
10-50 Vul	NU-NC	2 WIIes	order No.				
20-250 Vac/Vdc	NO	2 wires					
0-250 Vac/ Vuc	NU	2 WIIes	order No.				
20-250 Vac/Vdc	NC	2 wires					
	NC	2 WIIES	order No.				
20-250 Vac	NO	2/3 wires					
0-200 Vac	NO	2/ 5 101125	order No.				
0-30 Vdc	Analog	3 wires					
	0-20 mA	J WILES	order No.				
IAMUR amplifier	NAMUR	2 wires					
AMOR amplifier	MAINOR	2 WIIES	order No.				

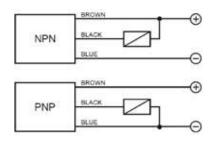
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	4Nm	4Nm	4Nm
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	





	SHORT	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-D1-S1	IS-08-D1-S2	IS-08-D1-03
95B066970	95B066700	95B062321
IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03
95B067000	95B066720	95B062351
IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03
95B066920	95B066650	95B066430
IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03
95B066940	95B066670	95B062291
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g
35g	55g	





# M12 3 pole



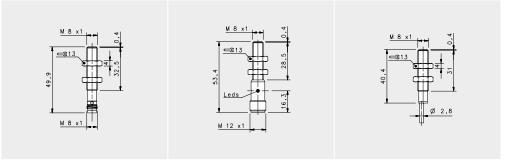
0	JULIACIE	CONFIGU	RATION	
Available		Contacts	numbers	1
	1	2	3	4
(NO or NC)	+		100	NOINC

# M8 3 pole

, (*), cont	ACTS CON	FIGURAT	10N
1127.22.2.1	Con	tacts num	bes
Available	1 HROWN	3 HULE	4 RACK
NPN/PNP	+	-	NO/NC

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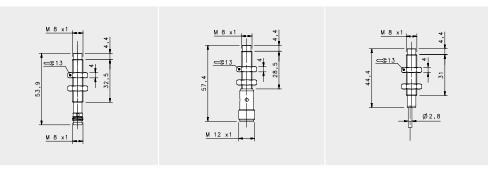




					SHORT X2		
					FLUSH		
			-	M8 conn	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm	2 mm	
10-30 Vdc	PNP/NPN	4 wires					
10 50 140	NO-NC	4 WIICS	order No.				
10-30 Vdc	PNP			IS-08-G1-S1	IS-08-G1-S2	IS-08-G1-03	
10 50 440	NO		order No.	95B066850	95B066580	95B066370	
10-30 Vdc	PNP	3 wires		IS-08-G2-S1	IS-08-G2-S2	IS-08-G2-03	
10-20 400	NC	JWIICS	order No.	95B066880	95B066610	95B066390	
10-30 Vdc	NPN	3 wires		IS-08-G3-S1	IS-08-G3-S2	IS-08-G3-03	
10-30 Vuc	NO	5 WIIES	order No.	95B066800	95B066520	95B066330	
10-30 Vdc	NPN	3 wires		IS-08-G4-S1	IS-08-G4-S2	IS-08-G4-03	
10-50 Vuc	NC Swires		order No.	95B063131	95B066550	95B066350	
10-30 Vdc	PNP	4 wires					
10-50 Vuc	NO-NC	4 WIIes	order No.				
10-30 Vdc	NPN	4 wires					
10-50 Vuc	NO-NC	4 WIIes	order No.				
10-30 Vdc		2					
10-50 Vuc	NO-NC	NO-NC 2 wires	O-NC 2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires					
20-250 Vac/ Vuc	NU	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 Vac/ Vuc	NC	2 WIIes	order No.				
20-250 Vac	NO	2/3 wires					
20-200 Val	NU	2/ 5 WILES	order No.				
10-30 Vdc	Analog	3 wires					
10-30 Vul	0-20 mA	5 WILES	order No.				
	NAMUD	Zwiros					
NAMUR amplifier	NAMUR	2 wires	order No.				

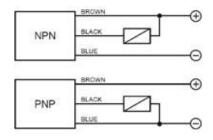
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	500 Hz	500 Hz	500 Hz
Start Up Delay	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	4Nm	4Nm	4Nm
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	





	SHORT X2	
	NON FLUSH	
M8 conn	M12 conn	cable
3 mm	3 mm	3 mm
IS-08-H1-S1	IS-08-H1-S2	IS-08-H1-03
95B066960	95B066690	95B066480
IS-08-H2-S1	IS-08-H2-S2	IS-08-H2-03
95B066990	95B063301	95B066500
IS-08-H3-S1	IS-08-H3-S2	IS-08-H3-03
95B066910	95B066640	95B066420
IS-08-H4-S1	IS-08-H4-S2	IS-08-H4-03
95B063251	95B063241	95B066460
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
500 Hz	500 Hz	500 Hz
< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm <sup>2</sup>
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g
35g	55g	

# 3 wires PNP or NPN

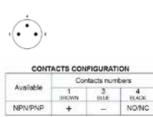


# M12 3 pole



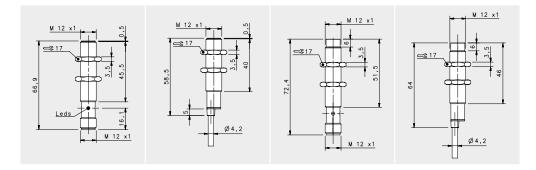
~	Unit Multo	S CONFIGU	RATION	
Available		Contacts	numbers	line as
	1	2	3	4
(NO or NC)	+		100	NOINC

### M8 3 pole



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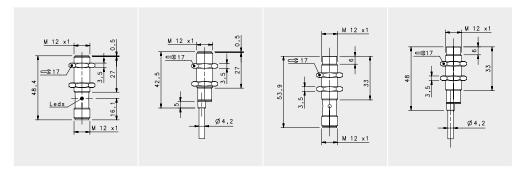


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				STANDARD				
				FLU	ISH	NON F	LUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm	4 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires		IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03	
10-30 Vac	NO-NC	4 wires	order No.	95B064060	95B064030	95B064080	95B064040	
10-30 Vdc	PNP	3 wires		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03	
10-30 Vac	NO	3 wires	order No.	95B061251	95B061241	95B061651	95B061641	
10-30 Vdc	PNP	3 wires		IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03	
10-30 Vac	NC	3 wires	order No.	95B061281	95B061271	95B061681	95B061671	
10-30 Vdc	NPN	2		IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03	
10-30 Vac	NO	3 wires	order No.	95B061191	95B061181	95B061591	95B061581	
10-30 Vdc	NPN	3 wires		IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03	
10-30 Vac	NC	3 wires	order No.	95B061221	95B061211	95B061621	95B061611	
10-30 Vdc	PNP	4 wires						
10-50 Vuc	NO-NC	4 WIIes	order No.					
10-30 Vdc	NPN	4 wires						
10-50 Vuc	NO-NC	4 WIIes	order No.					
10-30 Vdc	NO-NC	2 wires		IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03	
10-50 Vuc	NO-NC	2 wires	order No.	95B063931	95B064100	95B064140	95B064110	
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac7 Vuc	NO	2 WIIES	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac/ Vuc	NC.	2 WIIES	order No.					
20-250 Vac	NO	2/3wires						
20-200 val	NO	ZIJWIES	order No.					
10-30 Vdc	Analog	3 wires						
10-30 Vul	0-20 mA	J WIIES	order No.					
NAMUR amplifier	NAMUR	2 wires						
NAMOR amplifier	MINIOR	2 WIIES	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200mA; 100 mA (2wires)			
Min. Output Current	> 1,6 mA (2wires)			
Residual Current	< 10mA; < 1,6 mA (2wires)			
Voltage Drop	< 1,8V; < 6,5 V (2wires)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)			
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	10Nm	10Nm	10Nm	10Nm
Weight - Cable Output		110 g		110 g
Weight - Connector Output	60 g		60 g	





	SHO	ORT	
FLL			LUSH
M12 conn	cable	M12conn	cable
2 mm	2 mm	4 mm	4 mm
IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03
95B062051	95B062041	95B062451	95B062441
IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03
95B062081	95B062071	95B062481	95B062471
IS-12-B3-S2	IS-12-B3-03	IS-12-D3-S2	IS-12-D3-03
95B061991	95B061981	95B062391	95B062381
IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03
95B062021	95B062011	95B062421	95B062411
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m

3 x 0,14 mm²

Nickel-plated brass

LCP

10Nm

110 g

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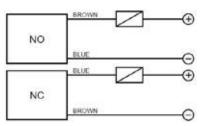
Nickel-plated brass

LCP

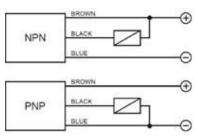
10Nm

60 g

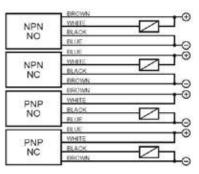
### 2 wires NO or NC



# 3 wires PNP or NPN



# 4 wires (PNP/NPN, NO/NC)



# M12 connector - connections



# 2 wires NO or NC

		Contacts	numbers	
Available	1	2	3	4
NO	+			
NC	<u> </u>			

### 3 wires

og usano		Contects	numbers	
www.sabie	1	2	3	4
NO or NC)	+		-	NOINC

# 4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers			
Output	- 1	2	- 3	4
NPN NO	+	NO		-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP NC	-	+	+	NC

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---Nickel-plated brass

LCP

10Nm

60 g

3 x 0,14 mm²

Nickel-plated brass

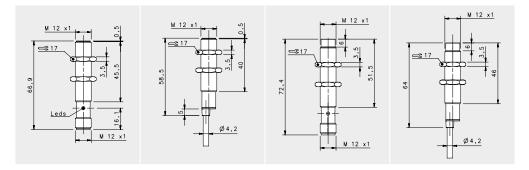
LCP

10Nm

110 g

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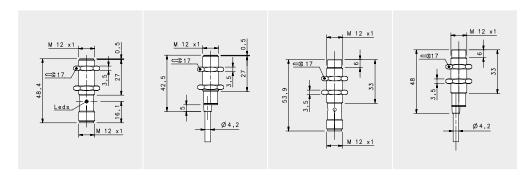




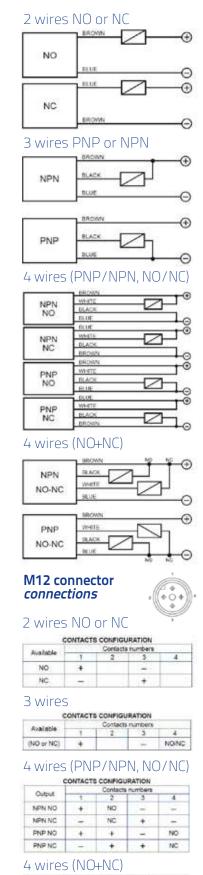
					STAND	ARD X2			
				FLI	JSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable		
NOMINAL SWITCH	ING DISTAN	CE		4 г	nm	8 n	nm		
10-30 Vdc	PNP/NPN	4 wires		IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03		
10-30 Vuc	NO-NC	4 WIIES	order No.	95B067230	95B067190	95B067250	95B067210		
10-30 Vdc	PNP	3 wires		IS-12-E1-S2	IS-12-E1-03	IS-12-F1-S2	IS-12-F1-03		
10-30 vuc	NO	5 WIIES	order No.	95B067030	95B067670	95B067020	95B067740		
10-30 Vdc	PNP	3 wires		IS-12-E2-S2	IS-12-E2-03	IS-12-F2-S2	IS-12-F2-03		
10-30 400	NC	2 MILES	order No.	95B067640	95B067680	95B067710	95B067750		
10-30 Vdc	NPN	3 wires		IS-12-E3-S2	IS-12-E3-03	IS-12-F3-S2	IS-12-F3-03		
10-30 Vuc	NO	5 WIIES	order No.	95B067650	95B067690	95B067720	95B067760		
10-30 Vdc	NPN	3 wires		IS-12-E4-S2	IS-12-E4-03	IS-12-F4-S2	IS-12-F4-03		
10-50 Vuc	NC	5 WIIES	order No.	95B067660	95B067700	95B067730	95B067770		
10-30 Vdc	PNP	4 wires							
10-50 Vuc	NO-NC	4 wires	order No.						
10-30 Vdc	NPN	4 wires							
10-50 Vuc	NO-NC	4 wires	order No.						
10-30 Vdc	NO-NC	Duringe		IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03		
10-30 Vac	NO-NC	2 wires	order No.	95B067240	95B067200	95B067260	95B067220		
20.250.11 (114-	NO	2							
20-250 Vac/Vdc	NO	2 wires	order No.						
20.250.1/24/1/44	NC	2 wires							
20-250 Vac/Vdc	NC		order No.						
20. 250 1/	NO	2/2							
20-250 Vac	NO	2/3 wires	order No.						
10.001/1	Analog	<u> </u>							
10-30 Vdc	0-20 mA	3 wires	order No.						
		<b>_</b> .							
NAMUR amplifier	NAMUR	2 wires	order No.						
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
Residual Ripple				< 10%	< 10%	< 10%	< 10%		
Hysteresis				< 10%	< 10%	< 10%	< 10%		
Max. Output Curre				100 mA	100 mA	100 mA	100 mA		
Min. Output Curre	nt								
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA		
Voltage Drop				< 1,2 V (I=100mA)					
Operation Led				Yellow	Yellow	Yellow	Yellow		
Switching Frequer	псу			500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)		
Start Up Delay				< 75 ms	< 75 ms	< 75 ms	< 75 ms		
Repeatability				< 3%	< 3%	< 3%	< 3%		
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)		
Electric Protection	1			Against polarity reversal inductive loads					
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)		
Protection Degree				IP67	IP67	IP67	IP67		
Cable Length									
5									

2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² 2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm² Cable Section ------Housing Material Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass Active face LCP LCP LCP LCP Tightening torque 10Nm 10Nm 10Nm 10Nm Weight - Cable Output ------------Weight - Connector Output 60 g 60 g 60 g 60 g





	SHOP	RT X2	
FLI	JSH	NON F	LUSH
M12 con	cable	M12 conn	cable
4 mm	4 mm	8 mm	8 mm
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03
95B063371	95B063361	95B063451	95B063441
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03
95B063391	95B063381	95B063471	95B063461
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03
95B063331	95B063321	95B063411	95B063401
IS-12-G4-S2	IS-12-G4-03	IS-12-H4-S2	IS-12-H4-03
95B063351	95B063341	95B063431	95B063421
IS-12-G5-S2	IS-12-G5-03	IS-12-H5-S2	IS-12-H5-03
95B062691	95B062681	95B062771	95B062761
IS-12-G6-S2	IS-12-G6-03	IS-12-H6-S2	IS-12-H6-03
95B062671	95B062661	95B062751	95B062741
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
00 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-N
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
10Nm	10Nm	10Nm	10Nm
	110 g		110 g
60 g		60 g	





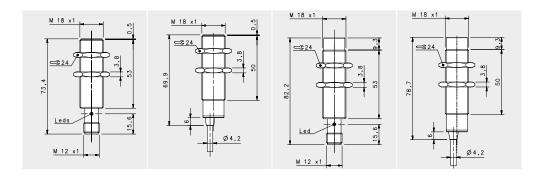
60 g

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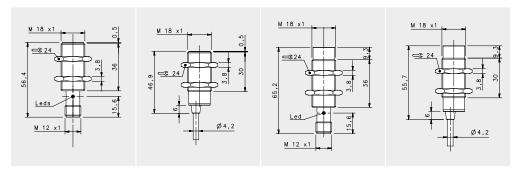
60 g



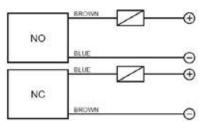


				STANDARD					
				FLUSH		NON FL	USH		
				M12 conn	cable	M12 conn	cable		
NOMINAL SWITCH	ING DISTANO	Œ		5 mm	5 mm	8 mm	8 mm		
10-30 Vdc	PNP/NPN	4 wires		IS-18-A0-S2	IS-18-A0-03	IS-18-C0-S2	IS-18-C0-03		
10-30 Vac	NO-NC	4 wires	order No.	95B064260	95B064230	95B064280	95B064240		
10-30 Vdc	PNP	3 wires		IS-18-A1-S2	IS-18-A1-03	IS-18-C1-S2	IS-18-C1-03		
10-50 Vuc	NO	3 wires	order No.	95B061351	95B061341	95B061751	95B061741		
10-30 Vdc	PNP	3 wires		IS-18-A2-S2	IS-18-A2-03	IS-18-C2-S2	IS-18-C2-03		
10-50 Vuc	NC	5 WIIES	order No.	95B061371	95B061361	95B061771	95B061761		
10-30 Vdc	NPN	3 wires		IS-18-A3-S2	IS-18-A3-03	IS-18-C3-S2	IS-18-C3-03		
10-50 Vuc	NO	5 WIIES	order No.	95B061311	95B061301	95B061711	95B061701		
10-30 Vdc	NPN	3 wires		IS-18-A4-S2	IS-18-A4-03	IS-18-C4-S2	IS-18-C4-03		
10-50 Vuc	NC	5 WIES	5 WIES	5 WIES	order No.	95B061331	95B061321	95B061731	95B061721
10-30 Vdc	PNP	4 wires							
10-50 Vuc	NO-NC		IO-NC 4 wires	order No.					
10-30 Vdc	NPN	4 wires							
10-30 vuc	NO-NC	4 wires	4 wires	C 4 Wiles	order No.				
10-30 Vdc	NO-NC 2 wire	2 wires		IS-18-A9-S2	S-18-A9-03	IS-18-C9-S2	IS-18-C9-03		
10-50 Vuc	NU-NC		-INC 2 WIRes	order No.	95B063941	95B064300	95B064340	95B064310	
20-250 Vac/Vdc	NO	2 wires							
20-250 Vac7 Vuc	NU	2 WIES	order No.						
20-250 Vac/Vdc	NC	2 wires							
20-250 Vac/ Vuc	NC	2 WIIES	order No.						
20-250 Vac	NO	2/3 wires							
20-250 Vac	NO	2/ 5 101125	order No.						
10-30 Vdc	Analog	3 wires							
	0-20 mA	J WIICJ	order No.						
NAMUR amplifier	NAMUR	2 wires							
	MINION	2 WIICS	order No.						

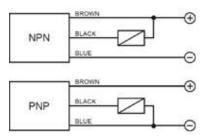
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Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current	> 1,6 mA (2wires ver.)			
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8V; < 6,5 V (2wires ver.)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)			
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	30Nm	30Nm	30Nm	30Nm
Weight - Cable Output		145g		145g
Weight - Connector Output	95g		95g	



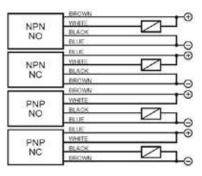
2 wires NO or NO
------------------



# 3 wires PNP or NPN



### 4 wires (PNP/NPN, NO/NC)



### M12 connector - connections



# 2 wires NO or NC

*		Contacts	numbers	
Available	1	2	3	4
NO	+			
NC			+	

### 3 wires

with a second second		Contects	numbers	
Avalacie	1	2	3	4
(NO or NC)	+		- 1	NO/NO

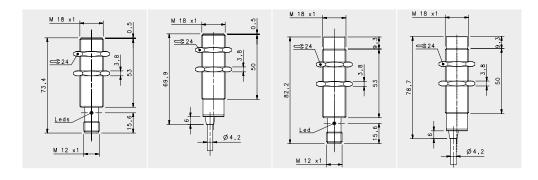
# 4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers				
Output	- 10	2	-3	4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP NO	+	+	-	NO	
PNP NC	-	+	+	NC	

	SH	ORT	
FLU	ISH	NON F	LUSH
M12 conn	cable	M12 conn	cable
5 mm	5 mm	8 mm	8 mm
IS-18-B1-S2	IS-18-B1-03	IS-18-D1-S2	IS-18-D1-03
95B062151	95B062141	95B062551	95B062541
IS-18-B2-S2	IS-18-B2-03	IS-18-D2-S2	IS-18-D2-03
95B062171	95B062161	95B062571	95B062561
IS-18-B3-S2	IS-18-B3-03	IS-18-D3-S2	IS-18-D3-03
95B062111	95B062101	95B062511	95B062501
IS-18-B4-S2	IS-18-B4-03	IS-18-D4-S2	IS-18-D4-03
95B062131	95B062121	95B062531	95B062521
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA) Yellow			
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
30Nm	30Nm	30Nm	30Nm
	145g		145g
95g		95g	
- 0		-0	

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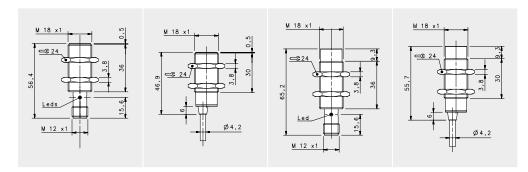




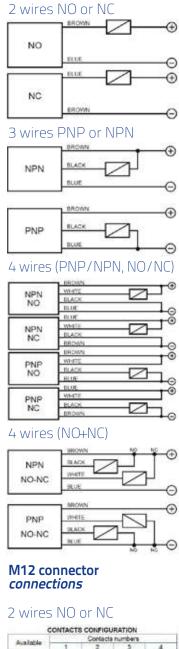
				STANDARD X2				
				FLUSH NON FLUSH			FLUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		8 mm 14 mm			mm	
10-30 Vdc	PNP/NPN	4 wires		IS-18-E0-S2	IS-18-E0-03	IS-18-F0-S2	IS-18-F0-03	
10-30 Vac	NO-NC	4 wires	order No.	95B067310	95B067270	95B067330	95B067290	
10-30 Vdc	PNP	3 wires		IS-18-E1-S2	IS-18-E1-03	IS-18-F1-S2	IS-18-F1-03	
10-30 Vac	NO	3 wires	order No.	95B067050	95B067810	95B067040	95B067880	
10-30 Vdc	PNP	3 wires		IS-18-E2-S2	IS-18-E2-03	IS-18-F2-S2	IS-18-F2-03	
10-30 Vac	NC	3 wires	order No.	95B067780	95B067820	95B067850	95B067890	
10-30 Vdc	NPN	3 wires		IS-18-E3-S2	IS-18-E3-03	IS-18-F3-S2	IS-18-F3-03	
10-30 Vac	NO		3 wires	order No.	95B067790	95B067830	95B067860	95B067900
10-30 Vdc	NPN	3 wires		IS-18-E4-S2	IS-18-E4-03	IS-18-F4-S2	IS-18-F4-03	
10-30 Vac	NC		5 WIIes	5 WIIes	order No.	95B067800	95B067840	95B067870
10-30 Vdc	PNP	4 wires						
10-50 Vuc	NO-NC	4 wires	order No.					
10-30 Vdc	NPN	(						
10-30 Vac	NO-NC	IC <sup>4 wires</sup>	order No.					
10, 20, 1/4-		2		IS-18-E9-S2	IS-18-E9-03	IS-18-F9-S2	IS-18-F9-03	
10-30 Vdc	NO-NC	2 wires	order No.	95B067320	95B067280	95B067340	95B067300	
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac/ Vuc	NU	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac/ Vuc	NC	2 wires	order No.					
20-250 Vac	NO	2/3wires						
20-250 Vac	NU	2/3 WIRES	order No.					
10, 20, 1/4-	Analog	2						
10-30 Vdc	0-20 mA	3 wires	order No.					
	NAMUR	2						
NAMUR amplifier	INAIVIUR	2 wires	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	400 Hz	400 Hz	100 Hz	100 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	30Nm	30Nm	30Nm	30Nm
Weight - Cable Output			145g	145g
Weight - Connector Output	95g	95g		





	SHO	RT X2	
FLL	FLUSH NON FLUSH		
M12 conn	cable	M12 conn	cable
8 mm	8 mm	14 mm	14 mm
IS-18-G1-S2	IS-18-G1-03	IS-18-H1-S2	IS-18-H1-03
95B063531	95B063521	95B063611	95B063601
IS-18-G2-S2	IS-18-G2-03	IS-18-H2-S2	IS-18-H2-03
95B063551	95B063541	95B063631	95B063621
IS-18-G3-S2	IS-18-G3-03	IS-18-H3-S2	IS-18-H3-03
95B063491	95B063061	95B063571	95B063561
IS-18-G4-S2	IS-18-G4-03	IS-18-H4-S2	IS-18-H4-03
95B063511	95B063501	95B063591	95B063581
IS-18-G5-S2	IS-18-G5-03	IS-18-H5-S2	IS-18-H5-03
95B062731	95B062721	95B062811	95B064220
IS-18-G6-S2	IS-18-G6-03	IS-18-H6-S2	IS-18-H6-03
95B062711	95B064200	95B062791	95B064210
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)	> 1,6 mA (2wires ver.)
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)	400 Hz/100 Hz (4 wires NO-NC)
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm <sup>2</sup> 4 x 0,25 mm <sup>2</sup>		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
30Nm	30Nm	30Nm	30Nm
	145g		145g



and the second s		Contacta	mumbers .	
AVB/DENE	1	2	\$	- 4
NO.	+		-	
NC.	-		+	

3 wires

CONTACTS CONFIGURATION Available 3 4 2 (NO or NC) NOINC +

# 4 wires (PNP/NPN, NO/NC)

0.0.1		Contacta	numbers	
Output	1	2		4
NPN NO	+	ND	-	-
NPN NC	-	NC	+	-
FNP NO	+	+	-	NO
PNP NC		+	+	NO

# 4 wires (NO+NC)

Available		Contacta	numbers	
SAN BURGEN	1	2	3	4
(NO + NC)	+	NC	-	NO

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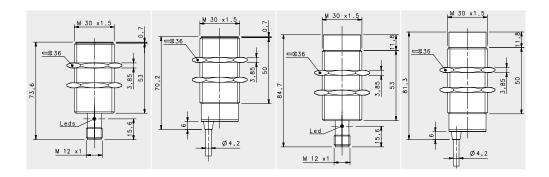
95g

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95g

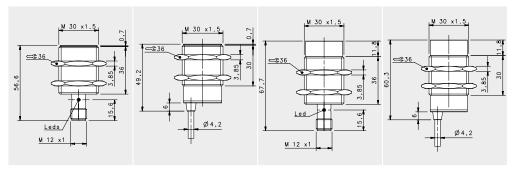




				STANDARD				
				FLUSH		NON F	LUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	Œ		10 mm	10 mm	15 mm	15 mm	
10-30 Vdc	PNP/NPN	4 wires		IS-30-A0-S2	IS-30-A0-03	IS-30-C0-S2	IS-30-C0-03	
10-30 Vuc	NO-NC	4 wires	order No.	95B064490	95B064460	95B064510	95B064470	
10-30 Vdc	PNP	Zwiroc	3 wires order No.	IS-30-A1-S2	IS-30-A1-03	IS-30-C1-S2	IS-30-C1-03	
10-50 Vuc	NO	5 WIIES		95B061431	95B061421	95B061831	95B061821	
10-30 Vdc	PNP	3 wires		IS-30-A2-S2	IS-30-A2-03	IS-30-C2-S2	IS-30-C2-03	
10-50 Vuc	NC	5 WIIES	order No.	95B061451	95B061441	95B061851	95B061841	
10-30 Vdc	NPN	3 wires		IS-30-A3-S2	IS-30-A3-03	IS-30-C3-S2	IS-30-C3-03	
10-50 Vuc	NO	3 wires or	order No.	95B061391	95B061381	95B061791	95B061781	
10-30 Vdc	NPN	Zwiros	3 wires		IS-30-A4-S2	IS-30-A4-03	IS-30-C4-S2	IS-30-C4-03
10-50 Vuc	NC	5 WIIes	order No.	95B061411	95B061401	95B061811	95B061801	
10-30 Vdc	PNP	4 wires						
10-30 Vuc	NO-NC	4 WILES	order No.					
10-30 Vdc	NPN	4 wires						
10-30 Vuc	NO-NC	4 WILES	order No.					
10-30 Vdc	NO-NC	2 wires		IS-30-A9-S2	IS-30-A9-03	IS-30-C9-S2	IS-30-C9-03	
10-30 Vuc	NO-NC	2 WIES	order No.	95B064570	95B064530	95B064590	95B064550	
20-250 Vac/Vdc	NO	2 wires						
20-250 Vac/ Vuc	NU	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac/ Vuc	INC	2 WIES	order No.					
20-250 Vac	NO	2/3wires						
20-250 Vac	NO	Z/ J WILES	order No.					
10-30 Vdc	Analog	3 wires						
	0-20 mA	J WILES	order No.					
NAMUR amplifier	NAMUR	2 wires						
while a second s	NAMOR	2 WIIES	order No.					

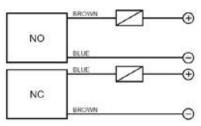
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200mA; 100 mA (2wires)			
Min. Output Current	> 1,6 mA (2wires)			
Residual Current	< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop	< 1,8V; < 6,5 V (2wires)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	60Nm	60Nm	60Nm	60Nm
Weight - Cable Output		210 g		210 g
Weight - Connector Output	170 g		170 g	



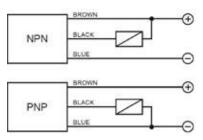


	SH	ORT	
FLL	JSH	NON	LUSH
M12 conn	cable	M12 conn	cable
10 mm	10 mm	15 mm	15 mm
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03
95B062231	95B062221	95B062631	95B062621
IS-30-B2-S2	IS-30-B2-03	IS-30-D2-S2	IS-30-D2-03
95B062251	95B062241	95B062651	95B062641
IS-30-B3-S2	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03
95B062191	95B062181	95B062591	95B062581
IS-30-B4-S2	IS-30-B4-03	IS-30-D4-S2	IS-30-D4-03
95B062211	95B062201	95B062611	95B062601
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (l=100mA)
Yellow	Yellow	Yellow	Yellow
300 Hz	300 Hz	300 Hz	300 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Malal alata U	Nielas alet 11	Mislari alst 11	
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
100			

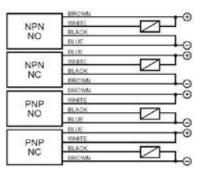
# 2 wires NO or NC



# 3 wires PNP or NPN



### 4 wires (PNP/NPN, NO/NC)



### M12 connector - connections



# 2 wires NO or NC

100000	Contacts numbers				
Available	1	2	3	4	
NO	+				
NC	<u></u>		+		

#### 3 wires

Conception of the	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+			NO/NO	

### 4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers				
Output	- 1	2	-3	4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP NO	+	+		NO	
PNP NC	-	+	+	NC	

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LCP

60Nm

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170 g

LCP

60Nm

210 g

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LCP

60Nm

210 g

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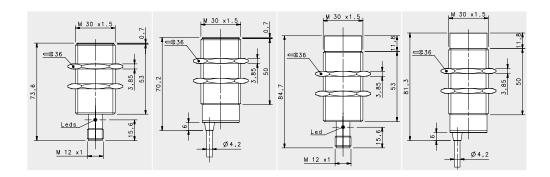
LCP

60Nm

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170 g



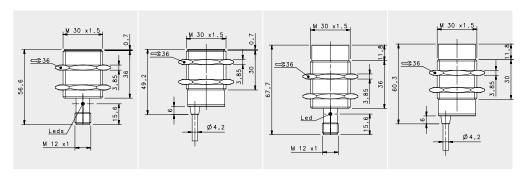


					STAND	ARD X2		
				FLU	5Н	NON-F	LUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCHING DISTANCE		15mm	15mm	20 mm	20 mm			
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	IS-30-E0-S2 95B067390	IS-30-E0-03 95B067350	IS-30-F0-S2 95B067410	IS-30-F0-03 95B067370	
10-30 Vdc	PNP	3 wires	order No.	IS-30-E1-S2	IS-30-E1-03	IS-30-F1-S2	IS-30-F1-03	
10-50 vac	NO	5 WIIES	order No.	95B067060	95B067950	95B067990	95B068030	
10-30 Vdc	PNP NC	3 wires	order No.	IS-30-E2-S2 95B067920	IS-30-E2-03 95B067960	IS-30-F2-S2 95B068000	IS-30-F2-03 95B068040	
10-30 Vdc	NPN NO	3 wires	order No.	IS-30-E3-S2 95B067930	IS-30-E3-03 95B067970	IS-30-F3-S2 95B068010	IS-30-F3-03 95B068050	
10-30 Vdc	NPN NC	3 wires	order No.	IS-30-E4-52 95B067940	IS-30-E4-03 95B067980	IS-30-F4-S2 95B068020	IS-30-F4-03 95B068060	
10-30 Vdc	PNP NO-NC	4 wires						
10-30 Vdc	NPN	4 wires	order No.					
	NO-NC		order No.					
10-30 Vdc	NO-NC	2 wires	order No.	IS-30-E9-S2 95B067400	IS-30-E9-03 95B067360	IS-30-F9-S2 95B067420	IS-30-F9-03 95B067380	
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
20 230 142, 142		2 111105	order No.					
20-250 Vac	NO	2/3 wires	order No.					
10-30 Vdc	Analog 0-20 mA	3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage			order No.	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	

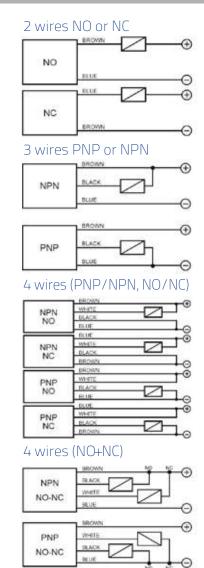
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 6,5 V (I=100mA)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	200 Hz/100 Hz (2 wires NO-NC)			
Start Up Delay	< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	60Nm	60Nm	60Nm	60Nm
Weight - Cable Output				
Weight - Connector Output	170 g	170 g	170 g	170 g



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FLUSH         NON FLUSH           M12 conn         cable         M12 conn         cable           15mm         15mm         20 nm         20 nm                 5-30-01-52         15-30-01-03         15-30-01-152         15-30-01-152           958063691         95806371         95806371         95806371         95806371           95806361         95806371         95806371         95806371         95806371           95806361         95806361         95806371         95806371         95806371           95806361         95806361         95806371         95806371         95806420           15-30-06-52         15-30-06-03         15-30-06-52         15-30-06-03         95806440           958064403         958064403         95806440         95806440         95806440           958064403         958064403         95806440         95806440         95806440           10         1         1         1         1           10         1         1         1         1           10         1         1         1         1           10         10	SHORT X2					
15mm         15mn         20 mm         20 mm           1         1         1         1         1           1         1         1         1         1           15-30-C1-52         15-30-C1-03         15-30-H1-52         15-30-C1-03           95B005801         95B005801         95B005801         95B00571         95B00571           15-30-C2-52         15-30-C4-03         15-30-H1-52         15-30-H4-03           95B005801         95B00581         95B005721         95B005721           15-30-C4-52         15-30-C4-03         15-30-H4-52         15-30-H4-03           95B00581         95B00581         95B005821         95B005821         95B005821           95B005831         95B005821         95B0058400         95B068400         95B068400           95B005831         95B0058400         95B068400         95B068400         95B068400           95B005831         95B0058400         95B068400         95B068400         95B068400           95B005840         95B068400         95B068400         95B068400         95B068400           95B0058400         95B068400         95B068400         95B068400         95B068400           15-30 - H6-52         15-30 - H6-52         15-30 - H6-52 </th <th>FLL</th> <th></th> <th></th> <th>LUSH</th>	FLL			LUSH		
1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1	M12 conn	cable	M12 conn	cable		
IS-30-G1-52         IS-30-G1-03         IS-30-H1-52         IS-30-H1-03           959005691         959005301         959005371         959005371           IS-30-C2-52         IS-30-G3-03         IS-30-H2-52         IS-30-H2-03           9590053711         959005371         959005371         959005371           IS-30-C4-52         IS-30-G3-03         IS-30-H3-52         IS-30-H4-03           9590053651         959005371         959005371         959005371           1S-30-C4-52         IS-30-G4-03         IS-30-H4-52         IS-30-H4-03           9590053851         959005381         959005381         959005440         959006440           1S-30-C6-52         IS-30-G4-03         IS-30-H4-52         IS-30-H4-03           959005430         9590064400         959006440         959006440           9590064430         9590064400         959006440         959006440           1S-30-G4-52         IS-30-H6-52         IS-30-H6-52         IS-30-H6-52           1S-30-G4-52         IS-30-H6-52         IS-30-H6-52         IS-30-H6-52           1S-30-G4-52         IS-30-H6-52         IS-30-H6-52         IS-30-H6-52           1S-30-G4-52         IS-30-G4-63         IS-30-H6-52         IS-30-H6-52           IS-30-G4-63<	15mm	15mm	20 mm	20 mm		
IS-30-G1-52         IS-30-G1-03         IS-30-H1-52         IS-30-H1-03           959005691         959005301         959005371         959005371           IS-30-C2-52         IS-30-G3-03         IS-30-H2-52         IS-30-H2-03           9590053711         959005371         959005371         959005371           IS-30-C4-52         IS-30-G3-03         IS-30-H3-52         IS-30-H4-03           9590053651         959005371         959005371         959005371           1S-30-C4-52         IS-30-G4-03         IS-30-H4-52         IS-30-H4-03           9590053851         959005381         959005381         959005440         959006440           1S-30-C6-52         IS-30-G4-03         IS-30-H4-52         IS-30-H4-03           959005430         9590064400         959006440         959006440           9590064430         9590064400         959006440         959006440           1S-30-G4-52         IS-30-H6-52         IS-30-H6-52         IS-30-H6-52           1S-30-G4-52         IS-30-H6-52         IS-30-H6-52         IS-30-H6-52           1S-30-G4-52         IS-30-H6-52         IS-30-H6-52         IS-30-H6-52           1S-30-G4-52         IS-30-G4-63         IS-30-H6-52         IS-30-H6-52           IS-30-G4-63<						
999063691         995063681         995063711         99506371           IS-30-C2-S2         IS-30-C2-03         IS-30-H2-S2         IS-30-H2-33           985063711         958063701         95806371         95806371           IS-30-C4-S2         IS-30-C4-03         IS-30-H4-S2         IS-30-H4-03           958063651         958063661         95806371         95806371           IS-30-C4-S2         IS-30-C4-03         IS-30-H4-S2         IS-30-H4-03           9580638071         958063801         958063751         95806371           IS-30-C4-S2         IS-30-C6-03         IS-30-H4-S2         IS-30-H4-03           958064300         958064400         958064400         95806440           958064430         958064400         95806440         95806440           1						
IS-30-G2-S2         IS-30-G2-03         IS-30-H2-S2         IS-30-H2-03           9SB063711         9SB063701         9SB06371         9SB06371           IS-30-G3-S2         IS-30-G4-03         IS-30-H3-S2         IS-30-H4-03           9SB063801         9SB06381         9SB06371         ISB06371           IS-30-G4-S2         IS-30-G4-03         IS-30-H4-S2         IS-30-H4-03           9SB063801         9SB063821         9SB064820         IS-30-H4-03           9SB06381         9SB064820         IS-30-H5-S2         IS-30-H5-03           IS-30-G6-S2         IS-30-G6-03         IS-30-H6-S2         IS-30-H6-03           9SB064430         9SB064400         9SB064400         9SB064400           IS-30-G6-S2         IS-30-H5-S2         IS-30-H6-C3         IS-30-H6-C3           9SB064430         9SB064400         9SB064400         9SB064400           IS-30-H5-S2         IS-30-H5-S2         IS-30-H6-C3           IS-30-H5         IS-30-H5-S2         IS-30-H6-C3           9SB064430         9SB064400         9SB064400         IS-30-H6-S2           IS-30-H5         IS-30-H6-S2         IS-30-H6-C3         IS-30-H6-C3           IS-30-H6         IS-30-H6         IS-30-H6         IS-30-H6	IS-30-G1-S2	IS-30-G1-03	IS-30-H1-S2	IS-30-H1-03		
95B063711         95B063701         95B063791         95B063781           IS-30-G3-S2         IS-30-G3-03         IS-30-H3-S2         IS-30-H3-S2           95B06361         95B06371         95B06371         95B06371           IS-30-G4-S2         IS-30-G4-03         IS-30-H4-S2         IS-30-H4-03           95B06361         95B06371         95B06371         95B06371           IS-30-G5-S2         IS-30-G6-03         IS-30-H6-S2         IS-30-H6-03           95B064420         95B064420         95B064420         95B064420           1S-30-G5-S2         IS-30-G6-03         IS-30-H6-S2         IS-30-H6-03           95B064420         95B064400         95B064400         95B064410           1S-30-G5-S2         IS-30-G6-03         IS-30-H6-S2         IS-30-H6-S2           95B064400         95B064400         95B064410         IS-30-H6-S2           1S-30-G5-S2         IS-30-G6-03         IS-30-H6-S2         IS-30-H6-S2           1S-30-G5-S2         IS-30-H6-S2         IS-30-H6-S2         IS-30-H6-S2           95B064400         95B064400         95B064410         IS-30-H6-S2           1S-1              1S-1	95B063691	95B063681	95B063771	95B063761		
IS-30-G3-52         IS-30-G3-03         IS-30-H3-52         IS-30-H3-03           9SB063651         9SB063641         9SB06371         9SB06371           IS-30-C4-52         IS-30-C4-03         IS-30-H4-52         IS-30-H4-03           9SB063671         9SB063661         9SB063751         9SB06371           IS-30-C5-52         IS-30-G5-03         IS-30-H5-52         IS-30-H6-03           9SB064400         9SB064400         9SB064400         9SB064400           9SB064430         9SB064400         9SB064400         9SB064400           1	IS-30-G2-S2	IS-30-G2-03	IS-30-H2-S2	IS-30-H2-03		
958063651         958063641         95806371         958063721           I5-30-G4-52         I5-30-G4-03         I5-30-H4-52         I5-30-H4-03           958063861         958063871         95806371         95806371           I5-30-G5-52         I5-30-G5-03         I5-30-H5-52         I5-30-H5-03           958063831         958064400         958064400         95806440           I5-30-G6-52         I5-30-G6-03         I5-30-H5-52         I5-30-H6-03           958064430         958064400         95806440         958064410                                                                         -	95B063711	95B063701	95B063791	95B063781		
958063651         958063641         958063731         958063721           IS-30-G4-52         IS-30-G4-03         IS-30-H4-52         IS-30-H4-03           958063671         958063631         958063731         95806371           IS-30-G5-52         IS-30-G5-03         IS-30-H5-52         IS-30-H5-03           958063831         958064400         958064400         95806440           958064430         958064400         95806440         958064410	IS-30-G3-S2	IS-30-G3-03	IS-30-H3-S2	IS-30-H3-03		
IS-30-G4-52         IS-30-G4-03         IS-30-H4-52         IS-30-H4-03           95B0053671         95B06371         95B06371         95B06371         95B06371           IS-30-G5-52         IS-30-G6-03         IS-30-H5-52         IS-30-H6-03         95B064420           IS-30-G6-52         IS-30-G6-03         IS-30-H6-52         IS-30-H6-03         95B064430           95B06430         95B064400         95B064400         95B064400         95B064400		95B063641				
958063671         958063661         958063751         958063741           IS-30-C5-52         IS-30-C5-03         IS-30-H5-52         IS-30-H5-03           958063831         958064400         958064400         958064400           IS-30-G6-52         IS-30-G6-03         IS-30-H6-52         IS-30-H6-03           958066430         958064400         958064400         958064410						
IS-30-G5-52         IS-30-G5-03         IS-30-H5-52         IS-30-H5-03           95B063831         95B064420         95B064420         95B064420           IS-30-G6-52         IS-30-H5-03         IS-30-H6-03           95B064430         95B064400         95B064400         95B064400						
958063831         958063821         958064450         958064420           IS-30-GE-52         IS-30-GE-03         IS-30-HE-52         IS-30-HE-03           958064430         958064400         958064400         958064400						
IS-30-G6-52         IS-30-G6-03         IS-30-H6-52         IS-30-H6-03           95B064430         95B064400         95B064400         95B064400                                                                                                           10-30 Vdc (-15/10%)         10-3						
958064430         958064400         958064400         958064400						
<10%						
10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)           <10%						
10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)           <10%						
10-30 Vdc (-15/10%)10-30 Vdc (-15/10%)10-30 Vdc (-15/10%)<10%						
10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)           < 10%						
10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)           <						
Image: Constraint of the system of						
10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)           < 10%						
10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)         10-30 Vdc (-15/10%)           < 10%						
< 10%         < 10%         < 10%         < 10%           < 10%						
< 10%         < 10%         < 10%         < 10%           < 10%						
$< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ 200 mA200 mA200 mA200 mA $$ $$ $$ $$ $< 10 mA$ $< 10 mA$ $< 10 mA$ $< 10 mA$ $< 12 V (=100mA)$ $< 1,2 V (=100mA)$ $< 1,2 V (=100mA)$ $< 1,2 V (=100mA)$ YellowYellowYellowYellowYellow200 Hz200 Hz200 Hz200 Hz200 Hz $< 75 ms$ $< 75 ms$ $< 75 ms$ $< 75 ms$ $< 3\%$ $< 3\%$ $< 3\%$ $< 3\%$ Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads $(-25 + 70 °C)$ $(-167 2 m)$ $3 \times 0, 14 mm^2$ $3 \times 0, 14 mm^2$	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)		
200 mA         200 mA         200 mA         200 mA                 <10 mA	< 10%	< 10%	< 10%	< 10%		
< 10 mA	< 10%	< 10%	< 10%	< 10%		
< 10 mA         < 10 mA         < 10 mA         < 10 mA           < 1,2 V (I=100mA)	200 mA	200 mA	200 mA	200 mA		
< 10 mA         < 10 mA         < 10 mA         < 10 mA           < 1,2 V (I=100mA)						
< 1,2 V (I=100mA)         < 1,2 V (I=100mA)         < 1,2 V (I=100mA)         < 1,2 V (I=100mA)           Yellow         Yellow         Yellow         Yellow         Yellow           200 Hz         200 Hz         200 Hz         200 Hz           < 75 ms		< 10 mA	< 10 mA	< 10 mA		
Yellow         Yellow         Yellow         Yellow           200 Hz         200 Hz         200 Hz         200 Hz           <75 ms						
200 Hz         200 Hz         200 Hz         200 Hz           < 75 ms						
< 75 ms< 75 ms< 75 ms< 75 ms< 3%						
< 3%< 3%< 3%< 3%Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25+70 °C)(-25+70 °C)(-25+70 °C)(-25+70 °C)(P67IP67IP67IP672 m2 m3 x 0,14 mm² 4 x 0,25 mm²3 x 0,14 mm² 4 x 0,25 mm²3 x 0,14 mm² 4 x 0,25 mm²Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCPLCP60Nm60Nm60Nm60Nm210 g210 g						
Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)IP67IP67IP67IP672 m2 m3 x 0,14 mm² 4 x 0,25 mm²3 x 0,14 mm² 4 x 0,25 mm²Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCP60Nm60Nm60Nm60Nm210 g210 g						
Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)(-25 +70 °C)IP67IP67IP67IP672 m2 m3 x 0,14 mm² 4 x 0,25 mm²3 x 0,14 mm² 4 x 0,25 mm²Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCP60Nm60Nm60Nm60Nm210 g210 g						
inductive loads         inductive loads         inductive loads         inductive loads           (-25+70 °C)         (-25+70 °C)         (-25+70 °C)         (-25+70 °C)           IP67         IP67         IP67         IP67            2 m          2 m            3 x 0,14 mm²         3 x 0,14 mm²         3 x 0,14 mm²            3 x 0,25 mm²          3 x 0,14 mm²           Nickel-plated brass         Nickel-plated brass         Nickel-plated brass         Nickel-plated brass           LCP         LCP         LCP         LCP           60Nm         60Nm         60Nm         210 g	-	-		-		
IP67         IP67         IP67         IP67            2 m         2 m            3 x 0,14 mm²         3 x 0,14 mm²            3 x 0,14 mm²         3 x 0,14 mm²            Nickel-plated brass         Nickel-plated brass           Nickel-plated brass         Nickel-plated brass         Nickel-plated brass           LCP         LCP         LCP           60Nm         60Nm         60Nm            210 g						
2 m2 m $\frac{3 \times 0.14 \text{ mm}^2}{4 \times 0.25 \text{ mm}^2}$ $\frac{3 \times 0.14 \text{ mm}^2}{4 \times 0.25 \text{ mm}^2}$ $\frac{3 \times 0.14 \text{ mm}^2}{4 \times 0.25 \text{ mm}^2}$ Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCP60Nm60Nm60Nm210 g210 g	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)		
3 x 0,14 mm² 4 x 0,25 mm²3 x 0,14 mm² 4 x 0,25 mm²3 x 0,14 mm² 4 x 0,25 mm²Nickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCP60Nm60Nm60Nm210 g210 g	IP67	IP67	IP67	IP67		
4 x 0,25 mm²4 x 0,25 mm²Nickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCP60Nm60Nm60Nm210 g		2 m		2 m		
LCP         LCP         LCP         LCP           60Nm         60Nm         60Nm         60Nm            210 g          210 g						
LCP         LCP         LCP         LCP           60Nm         60Nm         60Nm         60Nm            210 g          210 g	Nickel-plated brace	Nickel-plated brace	Nickel-plated brass	Nickel-plated brace		
60Nm         60Nm         60Nm            210 g          210 g	·					
210 g 210 g						
5						
	 170 g	210 g	 170 g	210 g		



### M12 connector connections

### 2 wires NO or NC

and the second	Contacts numbers				
Alvanacije	1	2	3	4	
NO	+				
NC			+		

# 3 wires

0	ONTACTS	S CONFIGU	RATION			
Translation	Contacts numbers					
Available	1	2	3	4		
(NO or NO)	+		-	NOINC		

### 4 wires (PNP/NPN, NO/NC)

0.0.4		Contacta	numbers	
Output	1	2		4
NPN NO	+	ND	1.00	-
NPN NC	-	NC	+	-
FNP NO	+	+	-	NO
PNP NC		+	+	NO

# 4 wires (NO+NC)

a shake		Contacta numbera		
Available	1	2	3	4
(NO + NC)	+	NC	-	NO

ACSI 23 rue Lavoisier 69680 CHASSIEU TEL: 04 78 20 07 82 Mail: contact@acsi-lyon.com

# **STAINLESS STEEL**

Stainless Steel housing M4, M5 POM active face - M6,5, M8, M12, M18, M30 LCP active face Standard length Short length Normal and double range operating distance Operating distance 0.8 ... 20 mm M4, M5, M6,5, M8, M12, M18, M30 Cable, M8 or M12 connector 3 wires PNP, NPN, NO, NC IP69K protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

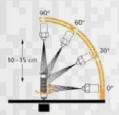
Each Stainless Steel model is IP69K tested M12/18/30 models are IP69K certified



"M12/18/30 models are Diversey and ECOLAB tested"



\*Excluded M4 and M5 models



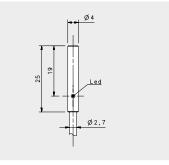
<sup>32</sup>ACS1 23 rue Lavoisier 69680 CHASSIEU **TEL : 04 78 20 07 82** Mail : contact@acsi-lyon.com



# STAINLESS STEEL

# **STAINLESS STEEL M4**





### **STANDARD** FLUSH

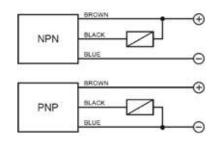
# cable

#### NOMINAL SWITCHING DISTANCE

NOMINAL SWITCH	IING DISTAN	CE		0,8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP NO	3 wires	order No.	IS-04-A1-03 95B061011
10-30 Vdc	PNP NC	3 wires	order No.	
10-30 Vdc	NPN NO	3 wires	order No.	IS-04-A3-03 95B061001
10-30 Vdc	NPN NC	3 wires	order No.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
10-30 Vdc	NPN NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires	order No.	
20-250 Vac/Vdc	NO	2 wires	order No.	
20-250 Vac/Vdc	NC	2 wires	order No.	
20-250 Vac	NO	2/3 wires	order No.	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	
NAMUR amplifier	NAMUR	2 wires	order No.	

Nominal Voltage	10-30 Vdc (-15/10%)
Residual Ripple	< 10%
Hysteresis	< 15%
Max. Output Current	100 mA
Min. Output Current	
Residual Current	< 0,01 mA
Voltage Drop	< 1,5 V
Operation Led	Yellow
Switching Frequency	2000 Hz
Start Up Delay	
Repeatability	< 1%
Short Circuit Protection	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)
Protection Degree	IP69K
Cable Length	2 m (PUR)
Cable Section	3x 0,15 mm²
Housing Material	Stainless-Steel
Active face	POM
Tightening torque	
Weight - Cable Output	50 g
Weight - Connector Output	

### 3 wires PNP or NPN



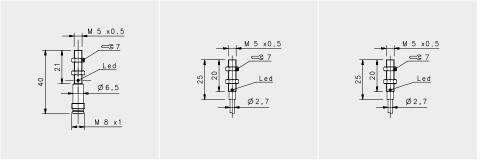
### M8 3 pole

$\smile$			
CONT	ACTS CON	FIGURAT	ION
	Contacts numbers		
27.22.23	Con	facts num	ice/s
Available	Con 1 HRCWN	acts nor 3 HUE	Les RACK

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# **STAINLESS STEEL M5**





				STANDARD		STANDARD X2	
				FLU	ISH	FLUSH	
				M8 conn	cable	cable	
NOMINAL SWITCHING DISTANCE				0,8 mm	0,8 mm	1,5 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.	IS-05-A1-S1 95B061051	IS-05-A1-03 95B061041		
10-30 Vdc	PNP NC	3 wires	order No.				
10-30 Vdc	NPN NO	3 wires	order No.	IS-05-A3-S1 95B061031	IS-05-A3-03 95B061021	IS-05-E3-03 95B065400	
10-30 Vdc	NPN NC	3 wires	order No.	55500 105 1	IS-05-A4-03 95B065420		
10-30 Vdc	PNP NO-NC	4 wires	order No.				
10-30 Vdc	NPN NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3 wires	order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Rinnle				< 10%	< 10%	< 10%	

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 15%	< 15%	< 15%
Max. Output Current	100 mA	100 mA	100 mA
Min. Output Current			
Residual Current	< 0,01 mA	< 0,01 mA	< 0,01 mA
Voltage Drop	< 1,5V	< 1,5V	< 1,5V
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	2000 Hz	2000 Hz	2000 Hz
Start Up Delay			
Repeatability	< 1%	< 1%	
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K	IP69K
Cable Length		2 m (PUR)	2 m (PUR)
Cable Section		3x 0,15 mm²	3x 0,15 mm²
Housing Material	Stainless-Steel	Stainless-Steel	Stainless-Steel
Active face	POM	POM	POM
Tightening torque	1,5 Nm	1,5 Nm	1,5 Nm
Weight - Cable Output		25g	25g
Weight - Connector Output	14g		

# **STAINLESS STEEL M6.5**



Repeatability

Short Circuit Protection

Electric Protection

Temperature Limit Protection Degree

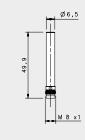
Cable Length

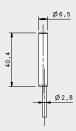
Cable Section

Active face Tightening torque

Housing Material

Weight - Cable Output Weight - Connector Output





< 3%

Present (self-resetting)

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP69K

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3x 0,14 mm²

Stainless-Steel

LCP

80 g

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### SHORT STAINLESS STEEL

				FLUSH		
				M8 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 Vuc	NO-NC		order No.			
10-30 Vdc	PNP	3 wires		IS-65-M1-S1	IS-65-M1-03	
10-30 Vuc	NO	5 WIIES	order No.	95B066080	95B064760	
10-30 Vdc	PNP	3 wires		IS-65-M2-S1	IS-65-M2-03	
10-30 Vuc	NC	5 WIES	order No.	95B066120	95B064800	
	NPN	3 wires		IS-65-M3-S1	IS-65-M3-03	
10-50 Vuc	NO	5 WIICS	order No.	95B066000	95B064680	
0-30 Vdc	NPN	3 wires		IS-65-M4-S1	IS-65-M4-03	
10-30 Vul	NC		order No.	95B066040	95B064720	
10-30 Vdc	PNP	4 wires				
10-30 Vac	NO-NC	4 wires	order No.			
10-30 Vdc	NPN	1				
NO-NC	4 wires	order No.				
10.00141	-30 Vdc NO-NC	2				
10-30 Vdc	NO-NC	2 wires	order No.			
0.050)/ //// NO	- ·					
20-250 Vac/Vdc	NO	2 wires	order No.			
	NC	<u> </u>				
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires				
20-250 Vac	50 Vac NO		order No.			
	Analog	During -	2			
10-30 Vdc	0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Currei	nt			200 mA	200 mA	
Min. Output Curre	nt					
Residual Current				< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Operation Led				Yellow	Yellow	
Switching Frequency				1000 Hz	1000 Hz	
Start Up Delay				< 50 ms	< 50 ms	

< 3%

Present (self-resetting)

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP69K

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Stainless-Steel

LCP

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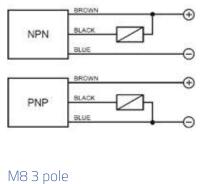
40 g

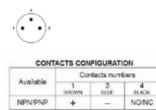


### SHORT STAINLESS STEEL

NON	FLUSH	
M8 conn	cable	
2 mm	2 mm	
IS-65-N1-S1	IS-65-N1-03	
95B066240	95B064920	
IS-65-N2-S1	IS-65-N2-03	
95B066280	95B064960	
IS-65-N3-S1	IS-65-N3-03	
95B066160	95B064840	
IS-65-N4-S1	IS-65-N4-03	
95B066200	95B064880	
		-
		- 2
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
< 10%	< 10%	
< 10%	< 10%	- 1
200 mA	200 mA	
< 10 mA	< 10 mA	
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Yellow	Yellow	
1000 Hz	1000 Hz	
< 50 ms	< 50 ms	
< 3%	< 3%	
Present (self-resetting)	Present (self-resetting)	
Against polarity reversal inductive loads	Against polarity reversal inductive loads	
(-25 +70 °C)	(-25 +70 °C)	
IP69K	ІР69К 	
	3x 0,14 mm²	
Stainless-Steel LCP	Stainless-Steel LCP	
	80 g	
40 g		

#### wires PNP or NPN







## **STAINLESS STEEL M8**



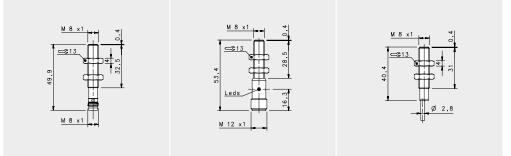
Housing Material

Tightening torque

Weight - Cable Output

Weight - Connector Output

Active face



#### SHORT STAINLESS STEEL

Stainless-Steel

LCP

4Nm

---

55g

Stainless-Steel

LCP

4Nm 80 g

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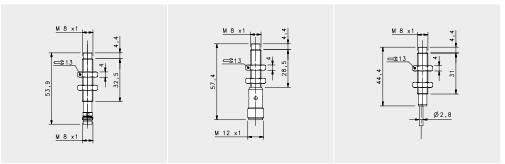
					FLUSH	
				M8 conn	M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires				
			order No.	 IS-08-M1-S1	 IS-08-M1-S2	 IS-08-M1-03
10-30 Vdc	PNP NO	3 wires	order No.	958066870	958066600	958066380
10-30 Vdc	PNP	3 wires		IS-08-M2-S1	IS-08-M2-S2	IS-08-M2-03
	NC	JWIICJ	order No.	95B066900	95B066630	95B066600
10-30 Vdc	NPN NO	3 wires	andan Na	IS-08-M3-S1 95B066820	IS-08-M3-S2 95B066540	IS-08-M3-03 95B066340
	-		order No.			
10-30 Vdc	NPN NC	3 wires	order No.	IS-08-M4-S1 95B066840	IS-08-M4-52 95B066570	IS-08-M4-03 95B066360
	PNP		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
	NPN					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	Justines				
10-30 Vac	NU-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-250 Vac/ Vuc	NU	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires				
	-		order No.			
20-250 Vac	NO	2/3 wires				
			order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
	0-20 MA		order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%
Max. Output Currei	nt			200 mA	200 mA	200 mA
Min. Output Curre	nt					
Residual Current				< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow
Switching Frequer	тсу			1000 Hz	1000 Hz	1000 Hz
Start Up Delay				< 50 ms	< 50 ms	< 50 ms
Repeatability				< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	I			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP69К	IP69K	IP69K
Cable Length						
Cable Section						3x 0,14 mm²
Llausing Material				Chairdana Charl	Chairdana Charl	Chainless Charl

Stainless-Steel

LCP

4Nm

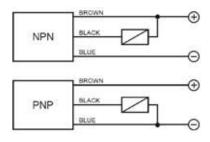
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### SHORT STAINLESS STEEL

M8 conn         M12 conn         cable           2 mm         2 mm         2 mm
Image: second
IS-08-N1-S1         IS-08-N1-S2         IS-08-N1-03           95B066980         95B066710         95B066490           IS-08-N2-S1         IS-08-N2-S2         IS-08-N2-03           95B067010         95B066730         95B066510           IS-08-N3-S1         IS-08-N3-S2         IS-08-N3-03           95B066930         95B066660         95B066440           IS-08-N4-S1         IS-08-N4-S2         IS-08-N4-03           95B066950         95B066800         95B066470
IS-08-N1-S1         IS-08-N1-S2         IS-08-N1-03           95B066980         95B066710         95B066490           IS-08-N2-S1         IS-08-N2-S2         IS-08-N2-03           95B067010         95B066730         95B066510           IS-08-N3-S1         IS-08-N3-S2         IS-08-N3-03           95B066930         95B066660         95B066440           IS-08-N4-S1         IS-08-N4-S2         IS-08-N4-03           95B066950         95B066680         95B066470
95B066980         95B066710         95B066490           IS-08-N2-S1         IS-08-N2-S2         IS-08-N2-03           95B067010         95B066730         95B066510           IS-08-N3-S1         IS-08-N3-S2         IS-08-N3-03           95B066930         95B066660         95B066440           IS-08-N4-S1         IS-08-N4-S2         IS-08-N4-03           95B066950         95B066680         95B066470
95B066980         95B066710         95B066490           IS-08-N2-S1         IS-08-N2-S2         IS-08-N2-03           95B067010         95B066730         95B066510           IS-08-N3-S1         IS-08-N3-S2         IS-08-N3-03           95B066930         95B066660         95B066440           IS-08-N4-S1         IS-08-N4-S2         IS-08-N4-03           95B066950         95B066680         95B066470
IS-08-N2-S1         IS-08-N2-S2         IS-08-N2-03           95B067010         95B066730         95B066510           IS-08-N3-S1         IS-08-N3-S2         IS-08-N3-03           95B066930         95B066660         95B066440           IS-08-N4-S1         IS-08-N4-S2         IS-08-N4-03           95B066950         95B066800         95B066470                                                                                             -
95B067010         95B066730         95B066510           IS-08-N3-S1         IS-08-N3-S2         IS-08-N3-03           95B066930         95B066660         95B066440           IS-08-N4-S1         IS-08-N4-S2         IS-08-N4-03           95B066950         95B066800         95B066470
IS-08-N3-S1     IS-08-N3-S2     IS-08-N3-03       95B066930     95B066660     95B066440       IS-08-N4-S1     IS-08-N4-S2     IS-08-N4-03       95B066950     95B066680     95B066470
95B066930         95B066660         95B066440           IS-08-N4-S1         IS-08-N4-S2         IS-08-N4-03           95B066950         95B06680         95B066470
IS-08-N4-S1         IS-08-N4-S2         IS-08-N4-03           95B066950         95B06680         95B066470
95B066950         95B06680         95B066470
Image: Control of the second
···         ···         ···           ···         ···         ···           ···         ···         ···           ···         ···         ···           ···         ···         ···           ···         ···         ···           ···         ···         ···           ···         ···         ···           ···         ···         ···
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%)
< 10% < 10% < 10%
< 10% < 10% < 10%
200 mA 200 mA 200 mA
< 10 mA < 10 mA < 10 mA
< 1,2 V (I=100mA) < 1,2 V (I=100mA) < 1,2 V (I=100mA)
Yellow Yellow Yellow
1000 Hz 1000 Hz 1000 Hz
< 50 ms < 50 ms < 50 ms
< 3% < 3% < 3%
Present (self-resetting) Present (self-resetting) Present (self-resetting)
Against polarity reversal Against polarity reversal Against polarity reversal inductive loads inductive loads
(-25 +70 °C) (-25 +70 °C) (-25 +70 °C)
IP69K IP69K IP69K
3x 0,14 mm²
Stainless-Steel Stainless-Steel Stainless-Steel
LCP LCP LCP
4Nm 4Nm 4Nm
80 g
35g 55g

3 wires PNP or NPN



#### M12 3 pole

		Contrate	numbers	
Available	-			
PATERICIP.	1	2	3	4
(NO or NC)	+		1000	NOINC

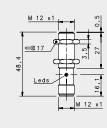
### M8 3 pole

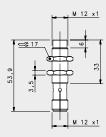
CONTACTS CONFIGURATION Contacts numbers Available 3 HULE 4 RACK NO/NC HICWIN NPN/PNP +

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## **STAINLESS STEEL M12**



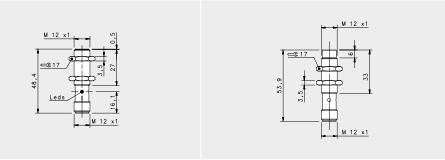




				SHORT STAINLESS STEEL		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
IOMINAL SWITCH	IING DISTAN	CE		2 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	PNP	3 wires		IS-12-M1-S2	IS-12-N1-S2	
10 30 142	NO	5 WIICS	order No.	95B060240	95B060280	
10-30 Vdc	PNP	3 wires		IS-12-M2-S2	IS-12-N2-S2	
10-20 Mac	NC	2 WIIES	order No.	95B060250	95B060290	
10-30 Vdc	NPN	3 wires		IS-12-M3-S2	IS-12-N3-S2	
10-50 Vuc	NO	5 wires	order No.	95B060260	95B060300	
10-30 Vdc	NPN	2		IS-12-M4-S2	IS-12-N4-S2	
10-30 Vac	NC <sup>3</sup>	NC	3 wires	order No.	95B060270	95B060310
10-30 Vdc	PNP	4 wires				
10 30 140	NO-NC	4 WIICS	order No.			
10-30 Vdc	NPN	4 wires				
10-30 Vuc	NO-NC	4 WIIES	order No.			
10-30 Vdc	NO-NC	2 wires				
10-30 Vuc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-250 Vac7 Vuc	NU	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires				
20-250 Vac/ Vuc	NC	2 wires	order No.			
20-250 Vac	NO	2/3wires				
20-250 Vac	NU	Z/ 5 WIRS	order No.			
10-30 Vdc	Analog	3 wires				
	0-20 mA	5 WIRES	order No.			
		2				
NAMUR amplifier	NAMUR	2 wires	order No.			

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	10Nm	10Nm
Weight - Cable Output		
Weight - Connector Output	60 g	60 g





SHORT STAIN	LESS STEEL X2	
FLUSH	NON FLUSH	
M12 conn	M12 conn	
4 mm	8 mm	
IS-12-01-S2	IS-12-P1-S2	
95B060000	95B060040	
IS-12-02-52	IS-12-P2-S2	
95B060010	95B060050	
IS-12-03-52	IS-12-P3-S2	
95B060020	95B060060	
IS-12-04-52	IS-12-P4-S2	
95B060030	95B060070	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
< 10%	< 10%	
< 10%	< 10%	
200 mA	200 mA	
< 10 mA	< 10 mA	
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Yellow	Yellow	
500 Hz	500 Hz	
< 75 ms	< 75 ms	
< 3%	< 3%	
Present (self-resetting)	Present (self-resetting)	M12 3 pole
Against polarity reversal inductive loads	Against polarity reversal inductive loads	-
(-25 +70 °C)	(-25 +70 °C)	C. C.
IP69K	IP69K	: (* 0 * ) *
		1
Stainless-Steel	Stainless-Steel	CONTAC
LCP	LCP	Available 1
10Nm	10Nm	(NO or NC) +
60 g	60 g	

4

NOINC

3

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CONTACTS CONFIGURATION Contacts numbers

2

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## **STAINLESS STEEL M18**

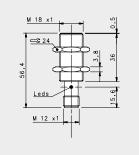


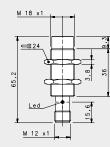
NAMUR amplifier

NAMUR

2 wires

order No.





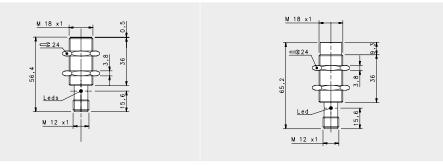
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#### SHORT STAINLESS STEEL NON FLUSH FLUSH M12 conn M12 conn NOMINAL SWITCHING DISTANCE 5 mm 8 mm PNP/NPN ------10-30 Vdc 4 wires NO-NC order No. --------PNP IS-18-M1-S2 IS-18-N1-S2 10-30 Vdc 3 wires NO order No. 95B060320 95B060360 PNP IS-18-M2-S2 IS-18-N2-S2 10-30 Vdc 3 wires NC 95B060330 95B060370 order No. NPN IS-18-M3-S2 IS-18-N3-S2 10-30 Vdc 3 wires NO order No. 95B060340 95B060380 NPN IS-18-M4-S2 IS-18-N4-S2 10-30 Vdc 3 wires NC order No. 95B060350 95B060390 PNP -------10-30 Vdc 4 wires NO-NC order No. -------NPN -------10-30 Vdc 4 wires NO-NC ---order No. ----------10-30 Vdc NO-NC 2 wires order No. -------------20-250 Vac/Vdc NO 2 wires order No. ----------\_\_\_ 20-250 Vac/Vdc NC 2 wires order No. --------------20-250 Vac NO 2/3 wires order No. -------Analog 0-20 mA ------10-30 Vdc 3 wires ---order No. ----

	•	
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	30Nm	30Nm
Weight - Cable Output		
Weight - Connector Output	95g	95g

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SHORT STAINI	ESS STEEL X2	
FLUSH	NON FLUSH	
M12 conn	M12 conn	
8 mm	14 mm	
IS-18-01-52	IS-18-P1-S2	
95B060080	95B060120	
IS-18-02-S2	IS-18-P2-S2	
95B060090	95B060130	
IS-18-03-52	IS-18-P3-S2	
95B060100	95B060140	
IS-18-04-52	IS-18-P4-S2	
95B060110 	95B060150	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
< 10%	< 10%	
< 10%	< 10%	
200 mA	200 mA	
< 10 mA	< 10 mA	
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Yellow	Yellow	
200 Hz	200 Hz	
< 75 ms	< 75 ms	
< 3%	< 3%	
Present (self-resetting)	Present (self-resetting)	M12 3 pole
Against polarity reversal inductive loads	Against polarity reversal inductive loads	, 
(-25+70 °C)	(-25 +70 °C)	( a cal:
IP69K	IP69K	
		1
		CONTACTS CONFIGURATION
Stainless-Steel LCP	Stainless-Steel LCP	Available Contects number
30Nm	30Nm	1 2 3
		(NO or NC) + -
95g	95g	
55 <u>6</u>	δ	

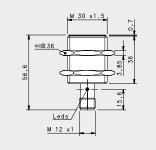
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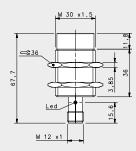
NOINC

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## **STAINLESS STEEL M30**



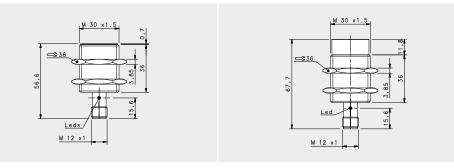




#### SHORT STAINLESS STEEL NON FLUSH FLUSH M12 M12 conn NOMINAL SWITCHING DISTANCE 10 mm 15 mm PNP/NPN ------10-30 Vdc 4 wires NO-NC order No. --------PNP IS-30-M1-S2 IS-30-N1-S2 10-30 Vdc 3 wires NO 95B060400 95B060440 order No. PNP IS-30-M2-S2 IS-30-N2-S2 10-30 Vdc 3 wires NC 95B060410 95B060450 order No. NPN IS-30-M3-S2 IS-30-N3-S2 10-30 Vdc 3 wires NO order No. 95B060420 95B060460 NPN IS-30-M4-S2 IS-30-N4-S2 10-30 Vdc 3 wires NC 95B060470 order No. 95B060430 PNP ------10-30 Vdc 4 wires NO-NC order No. ------NPN -------10-30 Vdc 4 wires NO-NC -------order No. -------10-30 Vdc NO-NC 2 wires order No. ------

20-250 Vac/Vdc	NO	2 wires		 
20-250 Vac/ Vuc	NU	2 wires	order No.	 
20-250 Vac/Vdc	NC	2 wires		 
20-250 Vac/ Vuc	NC	2 WIIES	order No.	 
20-250 Vac	NO	2/3wires		 
20-250 Vac	NU	Z/ J WILES	order No.	 
10-30 Vdc	Analog	3 wires		 
10-30 Vuc	0-20 mA	5 WIIES	order No.	 
NAMUR amplifier	NAMUR	2 wires		 
NAMOR ampliner	NAIVIOR	2 wires	order No.	 

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	300 Hz	300 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69К	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	60Nm	60Nm
Weight - Cable Output		
Weight - Connector Output	170 g	170 g



FLUSH	NON FLUSH	
M12 conn	M12 conn	
15 mm	20 mm	
IS-30-01-52	IS-30-P1-S2	
95B060160	95B060200	
IS-30-02-S2	IS-30-P2-S2	
95B060170	95B060210	
IS-30-03-52	IS-30-P3-S2	
95B060180	95B060220	
IS-30-04-52	IS-30-P4-S2	
95B060190	95B060230	
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
< 10%	< 10%	
< 10%	< 10%	
200 mA 	200 mA 	
< 10 mA	< 10 mA	
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	
Yellow	Yellow	
100 Hz	100 Hz	
< 75 ms	< 75 ms	
< 3%	< 3%	
Present (self-resetting)	Present (self-resetting)	M12 3 pole
Against polarity reversal	Against polarity reversal	
inductive loads	inductive loads	
(-25 +70 °C)	(-25 +70 °C)	
IP69K	IP69K	2 ((( + ( + ))) +
		<b>`</b>
		,
Stainless-Steel	Stainless-Steel	CONT
LCP	LCP	Available
 60Nm	 60Nm	(NO or NC)
		the arrival
170 g	170 g	

4

NOINC

3

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CONTACTS CONFIGURATION Contacts numbers

2

ACSI 23 rue Lavoisier 69680 CHASSIEU TEL: 04 78 20 07 82 Mail : contact@acsi-lyon.com 45

## **METAL FACE**

Stainless Steel housing Stainless Steel AISI 303 active face Standard length 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR							
	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS			
Average red. Fact.	0,45	0,85	O,4	0,5			

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# METAL FACE

## **METAL FACE M12**



Repeatability

Short Circuit Protection

Electric Protection

Temperature Limit

Protection Degree

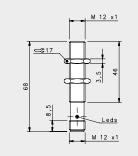
Weight - Cable Output

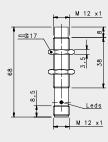
Weight - Connector Output

Cable Length

Cable Section Housing Material

Active face Tightening torque





< 1%

Present (self-resetting)

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP67

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Stainless-Steel Stainless Steel AISI 303

10Nm

----30 g

				МЕТА	L FACE
				FLUSH	NON FLUSH
				M12 conn	M12 conn
NOMINAL SWITCH	ING DISTANC	Œ		2 mm	4 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.	IS-12-I1-S2 95B065340	IS-12-L1-S2 95B063871
10-30 Vdc	PNP NC	3 wires	order No.		
10-30 Vdc	NPN NO	3 wires	order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
10-30 Vdc	PNP NO-NC	4 wires	order No.		
10-30 Vdc	NPN NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3wires	order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
			order no.		
Nominal Voltage				10-30 Vdc	10-30 Vdc
Residual Ripple				< 10% < 15%	< 10% < 15%
Hysteresis Max. Output Curre	nt			200 mA	200 mA
Min. Output Current					
Residual Current				< 0,01 mA	< 0,01 mA
Voltage Drop				< 1,5 V (I=100mA)	< 1,5 V (I=100mA)
Operation Led				Present	Present
Switching Freque	ncy			2000 Hz	1000 Hz
Start Up Delay					

< 1%

Present (self-resetting)

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP67

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Stainless-Steel

Stainless Steel AISI 303

10Nm

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## **METAL FACE M18**



Cable Length

Cable Section

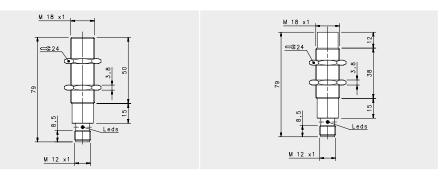
Active face

Housing Material

Tightening torque

Weight - Cable Output

Weight - Connector Output



				METAL FACE		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	ING DISTAN	CE		5 mm	8 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires		IS-18-I1-52	IS-18-L1-S2	
10-30 Vdc	PNP	3 wires	order No.	958065350	95B063881	
10-50 Vac	NC	5 WIIES	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10-30 Vdc	PNP	4 wires	order No.			
10-30 Vac	NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires				
			order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
		2/3 wires	order No.			
20-250 Vac	NO		order No.			
	Analaa		order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
			ID During			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Currer	nt			200 mA	200 mA	
Min. Output Curre				> 1,6 mA	> 1,6 mA	
Residual Current				< 0,01 mA	< 0,01 mA	
Voltage Drop				< 1,5 V	< 1,5 V	
Operation Led				Present	Present	
Switching Frequer	าดง			1000 Hz	500 Hz	
Start Up Delay	- 1					
Repeatability				< 1%	< 1%	
Short Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Tomporature Linet						
Temperature Limit				(-25 +70 °C) IP67	(-25 +70 °C) IP67	
Protection Degree				1907	וסא	

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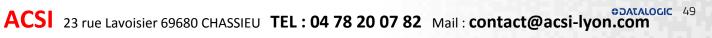
Stainless-Steel

Stainless Steel AISI 303

10Nm

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95g



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Stainless-Steel

Stainless Steel AISI 303

10Nm

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## WELD FIELD IMMUNE

Stainless Steel housing PTFE active face Standard length Operating distance 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

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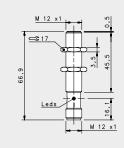
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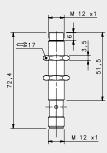


# WELD FIELD IMMUNE

## WELD FIELD IMMUNE M12







## FIELD IMMUNE STAINLESS STEEL FLUSH NON FLUSH M12 conn M12 conn 2 mm 4 mm

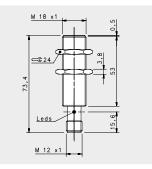
NOMINAL SWITCHING DISTANCE				2 mm	4 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.	IS-F12-S1-S2 95B065360	IS-F12-T1-52 95B065370
10-30 Vdc	PNP NC	3 wires	order No.		
10-30 Vdc	NPN NO	3 wires	order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
10-30 Vdc	PNP NO-NC	4 wires	order No.		
10-30 Vdc	NPN NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires	order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		

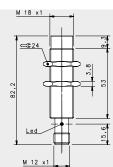
Nominal Voltage	10-30 Vdc	10-30 Vdc
Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
Min. Output Current	< 10mA	< 10mA
Residual Current	< 0,1 mA	< 0,1 mA
Voltage Drop	< 1,5V	< 1,5V
Operation Led	Present	Present
Switching Frequency	2000 Hz	1000 Hz
Start Up Delay	< 0,1 ms	< 0,1 ms
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	PTFE	PTFE
Tightening torque	10 Nm	10 Nm
Weight - Cable Output		
Weight - Connector Output	25g	23g



## WELD FIELD IMMUNE M18







				FIELD IMMUNE STAINLESS STEEL			
				FLUSH	NON FLUSH		
				M12 conn	M12 conn		
NOMINAL SWITCH	ING DISTAN	CE		5 mm	8 mm		
10-30 Vdc	PNP/NPN	4 wires					
	NO-NC	4 101105	order No.				
10-30 Vdc	PNP NO	3 wires	order No.	IS-F18-S1-S2 95B065380	IS-F18-T1-S2 95B065390		
	PNP		oraci ivo.				
10-30 Vdc	NC	3 wires	order No.				
10-30 Vdc	NPN	3 wires					
	NO	5 111 25	order No.				
10-30 Vdc	NPN NC	3 wires	order No.				
	PNP		or der ritor				
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NPN		( wires				
10-30 Vuc	NO-NC	4 wires	order No.				
10-30 Vdc			NO-NC 2 wires				
10-30 Vul	NO-NC	2 WIIES	order No.				
20-250 Vac/Vdc	NO	2 wires					
20 250 1407 140	NO	2 101105	order No.				
20-250 Vac/Vdc	NC	2 wires					
20 200 140, 140		2 111 05	order No.				
20-250 Vac	NO	2/3 wires	ordor No				
	0		order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				

Nominal Voltage	10-30 Vdc	10-30 Vdc
Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
Min. Output Current	< 10mA	< 10mA
Residual Current	< 0,1 mA	< 0,1 mA
Voltage Drop	< 1,5V	< 1,5V
Operation Led	Present	Present
Switching Frequency	1000 Hz	500 Hz
Start Up Delay	< 0,2 ms	< 0,5 ms
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	PTFE	PTFE
Tightening torque	30 Nm	30 Nm
Weight - Cable Output		
Weight - Connector Output	94g	91g



## **INDUCTIVE AC**

Nickel-plated Brass housing PA 16 active face Standard length Operating distance 2 ... 10 mm M12, M18, M30 cable or M12 connector 20+250 Vac (50,60 Hz) 2 or 3 wires NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,30,45	0,61	0,250,45	0,350,5





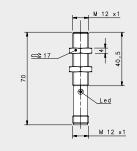


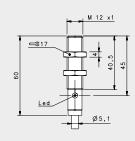
# INDUCTIVE AC

## **INDUCTIVE AC M12**



Weight - Connector Output





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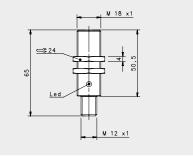
#### **STANDARD VAC**

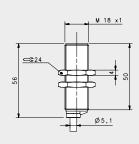
				FLUSH		
				M12 conn	cable	
NOMINAL SWITCHING DISTANCE				2 mm	2 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
0-30 Vdc	NPN NO	3 wires				
10-30 Vdc	NPN	3 wires	order No.			
0-30 Vdc	NC PNP	4 wires	order No.			
	NO-NC NPN		order No.			
0-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.	IS-12-A15-S2 95B060690	IS-12-A15-03 95B060680	
0-30 Vdc	Analog 0-20 mA	3 wires	order No.			
IAMUR amplifier	NAMUR	2 wires	order No.			
Iominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
esidual Ripple				< 10%	< 10%	
				< 10%	< 10%	
lysteresis 1ax. Output Curre	<b>n</b> t			500 mA, inrush:1,5A	500 mA, inrush:1,5A	
				20 mA	20 mA	
1in. Output Curre esidual Current	:iit			< 0,7 mA		
					< 0,7 mA < 4 V (I=100mA)	
oltage Drop				< 4 V (I=100mA) Yellow	Yellow	
peration Led				25 Hz	25 Hz	
witching Frequer	псу			< 300 ms	< 300 ms	
tart Up Delay				5%	5%	
epeatability hort Circuit Prote				۶» Present (self-resetting)	⊃‰ Present (self-resetting)	
lectric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
omporature Limit						
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67 	IP67 2 m	
able Length						
able Section					2 x 0,25 mm²	
lousing Material				Nickel-plated brass	Nickel-plated brass	
Active face				PA 16	PA 16	
lightening torque				17Nm	17Nm	
Weight - Cable Out					145g	
Woight Connecte	r Output			OFa		

## **INDUCTIVE AC M18**



Weight - Connector Output





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### **STANDARD VAC**

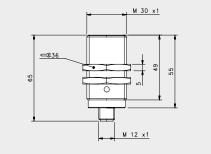
				FLUSH						
				M12 conn	cable					
NOMINAL SWITCHI	NG DISTAN	Œ		5 mm	5 mm					
10-30 Vdc	PNP/NPN	4 wires								
10-50 Vul	NO-NC	4 wires	order No.							
10-30 Vdc	PNP	3 wires								
10 30 440	NO	JWIICJ	order No.							
10-30 Vdc	PNP	3 wires								
	NC		order No.							
10-30 Vdc	NPN NO	3 wires	a unda u Mar							
			order No.							
10-30 Vdc	NPN NC	3 wires	order No.							
	PNP		order No.							
10-30 Vdc	NO-NC	4 wires	order No.							
	NPN		order No.							
10-30 Vdc	NO-NC	4 wires	order No.							
10-30 Vdc	NO-NC	2 wires	order No.							
20.250.1//1/4-	NO	2								
20-250 Vac/Vdc	NO	2 wires	order No.							
20-250 Vac/Vdc	NC	2 wires								
20-250 Vac/ Vuc	NC	2 WIES	order No.							
20-250 Vac	NO	2/3 wires		IS-18-A15-S2	IS-18-A15-03					
20 250 Vac	NO	2/ 5 WIC5	order No.	95B060780	95B060770					
10-30 Vdc	Analog	3 wires	3 wires	3 wires	3 wires	3 wires	3 wires			
	0-20 mA		order No.							
NAMUR amplifier	NAMUR	2 wires								
			order No.							
Nominal Voltage										
Residual Ripple				20+250 Vac (50,60 Hz) < 10%	20+250 Vac (50,60 Hz) < 10%					
Hysteresis				< 10%	< 10%					
Max. Output Curren	+			500 mA, inrush:1,5A	500 mA, inrush:1,5A					
Min. Output Curren				20 mA	20 mA					
Residual Current				< 0,7 mA	< 0,7 mA					
Voltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)					
Operation Led				Yellow	Yellow					
Switching Frequent	εv			25 Hz	25 Hz					
Start Up Delay	1			< 300 ms	< 300 ms					
Repeatability				5%	5%					
Short Circuit Protec	tion			Present (self-resetting)	Present (self-resetting)					
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads					
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)					
Protection Degree				IP67	IP67					
Cable Length					2 m					
Cable Section					2 x 0,25 mm²					
Housing Material				Nickel-plated brass	Nickel-plated brass					
Active face				PA 16	PA 16					
Tightening torque				40Nm	40Nm					
Weight - Cable Outp					145g					
Weight - Connector	Output			05m						

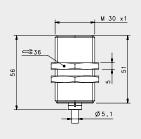


## **INDUCTIVE AC M30**



Weight - Connector Output



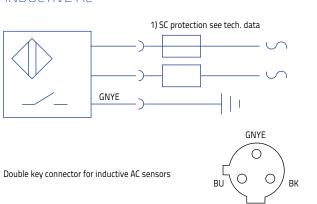


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#### **STANDARD VAC**

				FLUSH		
				M12 conn	cable	
NOMINAL SWITCHING DISTANCE				10 mm	10 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires				
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN	3 wires	order No.			
10-30 Vdc	NC PNP	4 wires	order No.			
10-30 Vdc	NO-NC NPN		order No.			
	NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.	IS-30-A15-S2 95B060820	IS-30-A15-03 95B060810	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
			·			
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 10%	< 10%	
Max. Output Curre				500 mA, inrush:1,5A	500 mA, inrush:1,5A	
/lin. Output Curre	int			20 mA	20 mA	
Residual Current				< 0,7 mA	< 0,7 mA	
/oltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)	
Operation Led				Yellow	Yellow	
witching Freque	ncy			25 Hz	25 Hz	
start Up Delay				< 300 ms	< 300 ms	
epeatability				5%	5%	
hort Circuit Prote				Present (self-resetting) Against polarity reversal	Present (self-resetting) Against polarity reversal	
				inductive loads	inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
able Length					2 m	
Cable Section					2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	
Active face				PA 16	PA 16	
Tightening torque				70Nm	70Nm	
Weight - Cable Out	tput				145g	





#### INDUCTIVE AC

ACSI 23 rue Lavoisier 69680 CHASSIEU TEL: 04 78 20 07 82 Mail: contact@acsi-lyon.com 59

## NAMUR

Stainless Steel housing LCP active face Short length Operating distance 0.8 ... 15 mm M5, M8, M12, M30 Cable, M8 or M12 connector 2 wires IP67 protection

**REDUCTION FACTOR** 

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7



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M12/18/30 FLUSH models are ATEX certified I I 3G EX nA II T6 I I 3D EX tD A22 IP67 T85°C





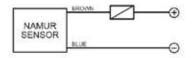
→ → M 5 ×0.5	
≈ <sup>2</sup> <i>ø</i> 2,7	

NAMUR

				FLUSH
				cable
NOMINAL SWITCH	ING DISTAN	CE		0,8 mm
10-30 Vdc	PNP/NPN	4 wires		
	NO-NC		order No.	
10-30 Vdc	PNP NO	3 wires	order No.	
	PNP			
10-30 Vdc	NC	3 wires	order No.	
10-30 Vdc	NPN	3 wires		
10-30 Vuc	NO	5 WIES	order No.	
10-30 Vdc	NPN NC	3 wires	order No.	
	-		Ulder NO.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
	NPN			
10-30 Vdc	NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires		
	NO-NC	2 WIIES	order No.	
20-250 Vac/Vdc	NO	2 wires		
20-250 Vac/ Vuc	NO	2 WIIES	order No.	
20-250 Vac/Vdc	NC	2 wires		
20 250 1407 140	NC	2 WIICS	order No.	
20-250 Vac	NO	2/3wires		
20 250 140	110	2/ 5 11/25	order No.	
10-30 Vdc	Analog	3 wires		
	0-20 mA	5 WIICS	order No.	
NAMUR amplifier	NAMUR	2 wires		IS-05-A20-03
		2 101105	order No.	95B065410

Nominal Voltage 6+12 V DC **Residual Ripple** < 10% Hysteresis Max. Output Current < 3 mA (metal absent) Min. Output Current < 1 mA (metal present) **Residual** Current ----Voltage Drop ----Operation Led ---2000 Hz Switching Frequency Start Up Delay < 10 ms Repeatability ---Short Circuit Protection Present (self-resetting) Against polarity reversal Electric Protection inductive loads (-25 ... +70 °C) Temperature Limit Protection Degree IP67 2 m (PVC) Cable Length Cable Section 2x 0,15 mm² Housing Material Stainless-Steel LCP Active face Tightening torque 1,5Nm 25g Weight - Cable Output Weight - Connector Output ---

#### 2 wires NAMUR



#### M8 2 wires NAMUR

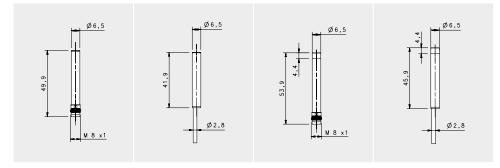
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CONT	ACTS CON	FIGURATI	ON
CONT	A REAL PROPERTY AND INCOME.	IFIGURATI	
CONT/ Available	A REAL PROPERTY AND INCOME.	Contractor Information	

## NAMUR M6.5



Weight - Cable Output

Weight - Connector Output



				NAMUR			
				FLL	ISH	NON FLUSH	
				M8 conn	cable	M8 conn	cable
OMINAL SWITCH	ING DISTAN	CE	-	1 mm	1 mm	2 mm	2 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.				
10-30 Vdc	PNP NC	3 wires					
10-30 Vdc	NPN	3 wires	order No.				
10 201/4-	NO NPN		order No.				
10-30 Vdc	NC PNP	3 wires	order No.				
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NPN NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 Vac	NO	2/3 wires	order No.				
20-250 Vac	NO	2/ 5 WIES	order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.	IS-65-A20-S1 95B066310	IS-65-A20-03 95B066290	 IS-65-C20-S1 95B066320	 IS-65-C20-03 95B066300
			order Hor	55566576	555000250	555000520	
Nominal Voltage				7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Currer				< 3 mA (metal absent)			
Min. Output Currer	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present
Residual Current							
/oltage Drop Operation Led							
Switching Frequen	CV.			2000 Hz	2000 Hz	2000 Hz	2000 Hz
Start Up Delay	Cy						
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity revers inductive loads
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2x 0,25 mm²		2 x 0,25 mm <sup>2</sup>
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Weight Cable Out	out			- 2.	20 g		20,7

80 g

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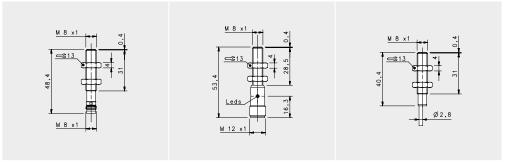
40 g

80 g

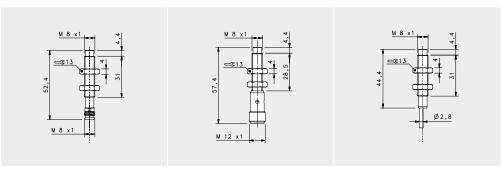
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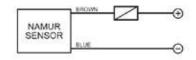


					NAMUR	
					FLUSH	
				M8 conn	M12 conn	cable
NOMINAL SWITCHING DISTANCE				1 mm	1 mm	1 mm
10-30 Vdc	30 Vdc PNP/NPN 4 wires	4 wires				
	NO-NC		order No.			
10-30 Vdc	PNP NO	3 wires	andan Na			
			order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
	NPN		order No.			
0-30 Vdc	NO	3 wires	order No.			
	NPN					
10-30 Vdc	NC	3 wires	order No.			
	PNP					
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NPN	4 wires				
10-50 Vuc	NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires				
0 50 140	NO NC	2 WIIC5	order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires	order No.			
	Appleg	-	order NO.			
10-30 Vdc	Analog 0-20 mA		order No.			
			order No.	IS-08-A20-S1	IS-08-A20-S2	S-08-A20-03
NAMUR amplifier	NAMUR	2 wires	order No.	95B066780	95B066760	95B066740
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%
Max. Output Curre	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
Min. Output Curre	ent			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
Residual Current						
/oltage Drop						
Operation Led						
Switching Freque	ncy			2000 Hz	2000 Hz	2000 Hz
Start Up Delay						
Repeatability				< 3%	< 3%	< 3%
hort Circuit Prot	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	n			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67
able Length						2 m
able Section						2x 0,25 mm²
lousing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP
ightening torque				4Nm	4Nm	4Nm
Weight - Cable Ou	•					80 g
Weight - Connecto	or Output			35g	55g	

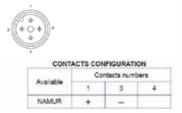


	NAMUR	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
 IS-08-C20-S1	 IS-08-C20-S2	 IS-08-C20-03
958066790	95B066770	95B066750
555666756	555666776	555666756
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
2000 Hz	2000 Hz	2000 Hz
 < 3%	 < 3%	 < 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67
		2 m
		2 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
4Nm	4Nm	4Nm
		80 g
35g	55g	

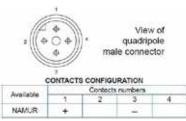
#### 2 wires NAMUR



#### M8 2 wires NAMUR



#### M12 2 wires NAMUR



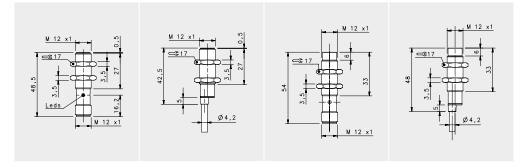




Tightening torque

Weight - Cable Output

Weight - Connector Output



				NAMUR				
				FLL		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	IING DISTAN	CE		2 mm	2 mm	4mm	4mm	
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC		order No.					
10-30 Vdc	PNP NO	3 wires	order No.					
	PNP		order No.					
0-30 Vdc	NC	3 wires	order No.					
	NPN							
10-30 Vdc	NO	3 wires	order No.					
	NPN							
10-30 Vdc	NC	3 wires	order No.					
	PNP	1						
10-30 Vdc	NO-NC	4 wires	order No.					
10-30 Vdc	NPN	( wires						
10-50 Vuc	NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires						
10-30 Vuc	NO-NC	2 WITES	order No.					
0-250 Vac/Vdc	NO	2 wires						
	NO	2 001105	order No.					
0-250 Vac/Vdc	NC	2 wires						
		2 111105	order No.					
0-250 Vac	NO	2/3wires						
			order No.					
0-30 Vdc	Analog	3 wires						
	0-20 mA		order No.					
NAMUR amplifier	NAMUR	2 wires	and an Ma	IS-12-A20-S2	IS-12-A20-03	IS-12-C20-S2	IS-12-C20-03	
			order No.	95B064180	95B064160	95B064190	95B064170	
Iominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
lysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Currei	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
/in. Output Curre				< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present	
Residual Current								
/oltage Drop								
Operation Led								
witching Frequer	ncy			2000 Hz	2000 Hz	2000 Hz	2000 Hz	
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting	
electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversa inductive loads	
emperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
able Length					2 m		2 m	
Cable Section					2 x 0,25 mm^2		2 x 0,25 mm^2	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	

<sup>66</sup>ACS1 23 rue Lavoisier 69680 CHASSIEU TEL: 04 78 20 07 82 Mail: contact@acsi-lyon.com

10Nm

110 g

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10Nm

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60 g

10Nm

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60 g

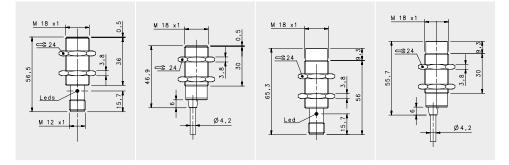
10Nm

110 g

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Weight - Connector Output



				NAMUR				
				FLU	JSH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	Œ		5mm	5mm	8mm	8mm	
10-30 Vdc	PNP/NPN	4 wires						
10-50 Vac	NO-NC	4 WIES	order No.					
10-30 Vdc	PNP NO	3 wires	order No.					
	PNP		order No.					
10-30 Vdc	NC	3 wires	order No.					
10-30 Vdc	NPN	3 wires						
10-30 Vac	NO	3 wires	order No.					
10-30 Vdc	NPN	3 wires						
	NC		order No.					
10-30 Vdc	PNP NO-NC	4 wires	order No.					
	NPN		order No.					
10-30 Vdc	NO-NC	4 wires	order No.					
40.001/4-		2						
10-30 Vdc	NO-NC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires						
	No	2 111105	order No.					
20-250 Vac/Vdc	NC	2 wires						
		2/3 wires	order No.					
20-250 Vac	NO		order No.					
	Analog		order No.					
10-30 Vdc	0-20 mA		order No.					
	NAMUR	2		IS-18-A20-S2	IS-18-A20-03	IS-18-C20-S2	IS-18-C20-03	
NAMUR amplifier	NAMUR	2 wires	order No.	95B064380	95B064360	95B064390	95B064370	
Nominal Voltago				7,7 + 9 V DC				
Nominal Voltage Residual Ripple				< 10%	< 10%	< 10%	7,7 + 9 V DC < 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Curre	nt			< 3 mA (metal absent)				
Min. Output Curre				< 1 mA (metal present)				
Residual Current								
Voltage Drop								
Operation Led								
Switching Freque	ncy			1000 Hz	1000 Hz	1000 Hz	1000 Hz	
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protectior	ı			Against polarity reversal inductive loads				
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length					2 m		2 m	
Cable Section					2 x 0,25 mm²		2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Tightening torque				30Nm	30Nm	30Nm	30Nm	
Weight - Cable Out	•			 95a	145g	 95a	145g	
Weight - Connecto	rilutnut			<u>45</u> 7		uhα		

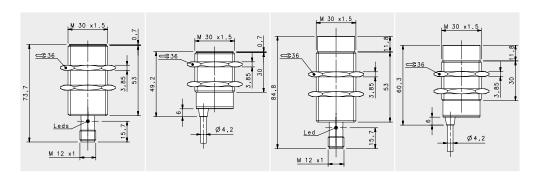
95g

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95g

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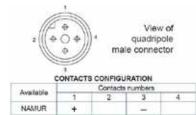


				NAMUR				
				FLL	JSH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCHING DISTANCE				10mm	10mm	15mm	15mm	
10-30 Vdc	PNP/NPN	4 wires						
	NO-NC	4 WIICS	order No.					
10-30 Vdc	PNP	3 wires						
	NO		order No.					
10-30 Vdc	PNP NC	3 wires	order No.					
	NPN		order No.					
10-30 Vdc	NO	3 wires	order No.					
10-30 Vdc	NPN	3 wires						
10-50 Vul	NC	5 WILES	order No.					
10-30 Vdc	PNP	4 wires						
	NO-NC		order No.					
10-30 Vdc	NPN NO-NC	4 wires	andan Na					
	NO-NC		order No.					
10-30 Vdc	NO-NC	2 wires	order No.					
			order rior					
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires						
20-250 Vac7 Vuc	NC	2 wires	order No.					
20-250 Vac	NO	2/3wires						
			order No.					
10-30 Vdc	Analog	Analog 0-20 mA <sup>3</sup> wires						
	0-20 MA		order No.	 IS-30-A20-S2	 IS-30-A20-03	 IS-30-C20-S2	 IS-30-C20-03	
NAMUR amplifier	NAMUR	2 wires	order No.	95B064630	95B064610	95B064640	95B064620	
			order No.	555664056	555664616	555004040	555604020	
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Curre	nt			< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	
Residual Current								
/oltage Drop								
Operation Led	201			 500 Hz	 500 Hz	 500 Hz	 500 Hz	
Switching Frequer Start Up Delay	icy						500 HZ	
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
remperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Table Law atta					2 m		2 m	
					2 x 0,25 mm²		2 x 0,25 mm²	
				ALC 1 I I I I I	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Cable Section Housing Material				Nickel-plated brass				
Cable Section Housing Material Active face				LCP	LCP	LCP	LCP	
Cable Length Cable Section Housing Material Active face Tightening torque Weight - Cable Out								

#### 2 wires NAMUR



#### M12 2 wires NAMUR



ACSI 23 rue Lavoisier 69680 CHASSIEU TEL: 04 78 20 07 82 Mail: contact@acsi-lyon.com

## SQUARE

PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC IP67

 
 REDUCTION FACTOR

 ALUMINUM (25°C)
 STAINLESS STEEL AISI316L
 COPPER
 BRASS

 Average red. Fact.
 0,45
 0,85
 0,4
 0,5





\*IS-88 models only

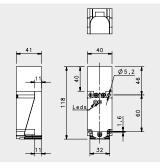


## SOUARE 40X40



Weight - Cable Output

Weight - Connector Output

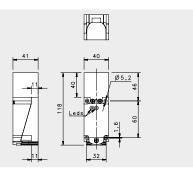


				40X40		
				FLUSH	NON FLUSH	
				Terminal Block	Terminal Block	
NOMINAL SWITCHING DISTANCE				15 mm	30mm	
10-30 Vdc	PNP/NPN	4 wires				
10-50 Vac	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
	NO		order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
	NPN		order No.			
10-30 Vdc	NO	3 wires	order No.			
10-30 Vdc	NPN	2				
10-30 Vuc	NC	3 wires	order No.			
10-30 Vdc	PNP	4 wires		IS-40-W5-S3	IS-40-Y5-S3	
	NO-NC		order No.	958065240	958065280	
10-30 Vdc	NPN NO-NC	4 wires	order No.	IS-40-W6-S3 95B065230	IS-40-Y6-S3 95B065270	
	NO NC		order No.	936063230	956065270	
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	c NC 2 wire	2 wires				
	NC .	2 111123	order No.			
20-250 Vac	NO	2/3 wires				
			order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
	0 20 1114		order NO.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
lysteresis				< 15% (Sr)	< 15% (Sr)	
Max. Output Curre				200mA	200mA	
Min. Output Curre	nt					
Residual Current				< 0,01 mA	< 0,01 mA	
/oltage Drop				< 1,5V	< 1,5V	
Operation Led				YES	YES	
Switching Frequer	псу			100 Hz	100 Hz	
Start Up Delay						
Repeatability				< 1.0% (Sr)	< 1.0% (Sr)	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protectior	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
remperature Limit				(-25+75C)	(-25 +75 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						
Housing Material				PBT ( RESIN)	PBT ( RESIN)	
Weight Cable Out					(	

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262g

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### 40X40 VAC/VDC

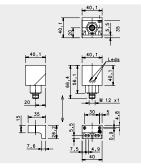
FLUSH         NON FLUSH           Terminal Block         Terminal Block           15 mm         30mm	40X40 VAC/VDC					
15 mm         30mm						
<td>Terminal Block</td> <td>Terminal Block</td>	Terminal Block	Terminal Block				
<td>15 mm</td> <td>30mm</td>	15 mm	30mm				
<td></td> <td></td>						
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<td></td> <td></td>						
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-						
15-40-W7-53         958065290           958065250         958065290           15-40-W8-53         15-40-Y8-53           958065260         958065300                                                                               20-250 VAC/Vdc, 50-60 Hz            < 10%						
15-40-W7-53       958065290         958065250       958065290         958065260       958065300						
IS-40-W7-S3       IS-40-Y7-S3         95B065250       95B065290         IS-40-W8-S3       IS-40-Y8-S3         95B065260       95B065300                                                                                                                              -						
IS-40-W7-S3       IS-40-Y7-S3         95B065250       95B065290         IS-40-W8-S3       IS-40-Y8-S3         95B065260       95B065300						
958065250       958065290         IS-40-W8-S3       IS-40-Y8-S3         958065260       958065300 </td <td></td> <td></td>						
IS-40-W8-S3       IS-40-Y8-S3         95B065260       95B065300 <tr td="">         &lt;10Vac ; &lt; 8Vd</tr>						
95B065260     95B065300                           20-250 VAC/Vdc, 50-60 Hz     20-250 VAC/Vdc, 50-60 Hz           20-250 VAC/Vdc, 50-60 Hz         10%     <10%						
20-250 VAC/Vdc, 50-60 Hz       20-250 VAC/Vdc, 50-60 Hz             20-250 VAC/Vdc, 50-60 Hz       200mA             200mA       200mA         200mA       200mA                                          200mA						
20-250 VAC/Vdc, 50-60 Hz       20-250 VAC/Vdc, 50-60 Hz                                  200mA         200mA       200mA                                                                                                <						
   20-250 VAC/Vdc, 50-60 Hz  20-250 VAC/Vdc, 50-60 Hz  20-250 VAC/Vdc, 50-60 Hz   20-250 VAC/Vdc, 50-60 Hz   200mA   200mA						
  20-250 VAC/Vdc, 50-60 Hz  20-250 VAC/Vdc, 50-60 Hz   200mA         						
 20-250 VAC/Vdc, 50-60 Hz 20-250 VAC/Vdc, 50-60 Hz < 10% < 10% < 10% < 10%						
20-250 VAC/Vdc, 50-60 Hz         20-250 VAC/Vdc, 50-60 Hz           < 10%						
< 10%						
< 10%						
< 10%	20-250 VAC/Vdc, 50-60 Hz	20-250 VAC/Vdc, 50-60 Hz				
< 15% (Sr)						
< 2,5mA	< 15% (Sr)					
< 2,5mA < 2,5mA < 10Vac ; < 8Vdc < 10Vac ; < 8Vdc	200mA	200mA				
< 10Vac ; < 8Vdc < 10Vac ; < 8Vdc						
	< 2,5mA	< 2,5mA				
YES VES	< 10Vac ; < 8Vdc	< 10Vac ; < 8Vdc				
	YES	YES				
25 Hz AC; 40 Hz DC 25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC				
< 1.0% (Sr) < 1.0% (Sr)						
Present (self-resetting) Present (self-resetting)	Present (self-resetting)	Present (self-resetting)				
Against polarity reversal     Against polarity reversal       inductive loads     inductive loads						
(-25 +70 °C) (-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)				
IP67 IP67		IP67				
PBT ( RESIN) PBT ( RESIN)						
262g 262g	262g	262g				

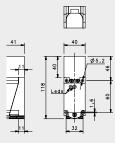


# SOUARE 40X40



Weight - Connector Output





242g

	$\checkmark$			SHORT	ANALOG OUTPUT
				FLUSH	NON FLUSH
				M12 conn.	Terminal Block
OMINAL SWITCH	IING DISTAN	CE		15mm	7-20mm
40.001/1	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	3 wires			
	NO		order No.		
0-30 Vdc	PNP NC	3 wires	order No.		
0.00.1/1-	NPN	2			
0-30 Vdc	NO	3 wires	order No.		
0-30 Vdc	NPN	3 wires			
	NC		order No.		
0-30 Vdc	PNP NO-NC	4 wires	order No.	IS-40-X5-S2 95B065320	
	NPN		order No.	IS-40-X6-S2	
0-30 Vdc	NO-NC	4 wires	order No.	95B065310	
0-30 Vdc	NO-NC	2 wires			
0 50 142	No Ne	2 WIICS	order No.		
0-250 Vac/Vdc	NO	2 wires	and an Na		
			order No.		
0-250 Vac/Vdc	NC	2 wires	order No.		
0.250.1/	NO	2/2			
0-250 Vac	NO	2/3 wires	order No.		
0-30 Vdc	Analog	3 wires			IS-40-C11-S3
0 50 140	0-20 mA	5 11105	order No.		95B065330
IAMUR amplifier	NAMUR	2 wires	order No.		
			order No.		
Iominal Voltage				10-30 Vdc	18-30 Vdc
esidual Ripple				< 10%	< 10%
lysteresis				< 15% (Sr)	< 10% (Sr)
/lax. Output Currei	nt			200mA	0-20mA/200 Ω Max.
/lin. Output Curre	nt				
Residual Current				< 0,01mA	
/oltage Drop				< 1,5V	
Operation Led				YES	
witching Frequer	псу			100 Hz	100 Hz
tart Up Delay					
Repeatability				< 1.0% (Sr)	0,02 mm
Short Circuit Protection			Present (self-resetting)	Present (self-resetting)	
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					
Cable Section					
lousing Material				PBT (RESIN)	PBT (RESIN)
Neight - Cable Out					
Neight - Connecto	r Outnut			170 σ	242a

170 g

# **SOUARE 8X8**



**Residual** Current

Switching Frequency

Short Circuit Protection

Electric Protection

Temperature Limit Protection Degree

Cable Length

Cable Section

Housing Material

Weight - Cable Output

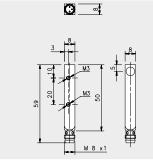
Weight - Connector Output

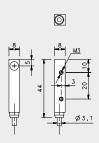
Voltage Drop

Operation Led

Start Up Delay

Repeatability





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< 1,2V

Yellow 500 Hz

75 ms

< 3%

Present (self-resetting)

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP67

2 m

3x0,14mm²

nickel-plated brass 80 g

				SH	ORT
				FLU	JSH
			-	M8 conn	cable
NOMINAL SWITCH	NOMINAL SWITCHING DISTANCE			1,5mm	1,5mm
10-30 Vdc	PNP/NPN	4 wires			
	NO-NC		order No.		
10-30 Vdc	PNP NO	3 wires	order No.	IS-88-Q1-51 95B060840	IS-88-Q1-03 95B060830
	PNP		order Hor		
10-30 Vdc	NC	3 wires	order No.		
10-30 Vdc	NPN NO	3 wires	and an Nia		
			order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
	PNP				
10-30 Vdc	NO-NC	4 wires	order No.		
10.201/4-	NPN (	1			
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2			
10-50 Vuc	NU-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires			
20-250 Vac7 Vuc	NU	2 WIIES	order No.		
20-250 Vac/Vdc	NC	2 wires			
20-230 vac/ vac	NC	2 WIIES	order No.		
20-250 Vac	NO	2/3 wires			
20-250 Vac	NO	2/ 5 101125	order No.		
10-30 Vdc	Analog	3 wires			
	0-20 mA	3 wires	order No.		
NAMUR amplifier	r NAMUR	2 wires			
	NAMOR amplifier NAMOR		order No.		
Nominal Voltage				10-30 Vdc	10-30 Vdc
Nominal Voltage				< 10%	< 10%
Residual Ripple				< 10% < 10% (Sr)	
Hysteresis	nt			< 10% (Sr) 200mA	< 10% (Sr) 200mA
Max. Output Curre					
Min. Output Curre	911L				

----

< 1,2V

Yellow

500 Hz

75 ms

< 3%

Present (self-resetting)

Against polarity reversal

inductive loads

(-25 ... +70 °C)

IP67

---

----

nickel-plated brass

----

40 g

# CAPACITIVE

**Capacitive sensors** are noncontact proximity devices suitable for detecting metals, nonmetals, solids, and liquids. The oscillating circuit is influenced by variations in capacity. When any material comes close to the active face, the capacity of the sensor varies and, if the threshold distance is passed, the sensor switches the state of its outputs. Like for the inductive sensors, the operating distance is calculated using a square piece of Fe37, with 1 mm thickness. The variation of the capacitance is due to the conductivity or non-conductivity of the different materials. Conductive materials change the capacitance of the sensor, while non-conductive materials change the dielectric constant of the reference capacitor; the sensor feel the variation of the generated electric field by its active sensing face.

Datalogic offers a basic range for the Capacitive sensors, M18 and M30 tubular housing, in Direct or Alternated Current, in nickel-plated brass or plastic housing, with timer and sensitivity adjustment trimmer, equipped with the industrial standard outputs, suitable for the most common applications of detection and in the filling level control of the materials.

Nickel plated brass M18, M30 Basic series (NO-NC) Capacitive A.C. series (plastic housing) Multi-voltage series (SPDT relay) Operating distance: 5...25 mm Cable or M8 connector 2,4,6 wires PNP or NPN, N.O. and N.C. outputs, SPDT relay Delay ON or delay OFF model IP67 protection

MATERIALS	REDUCTION FACTOR
Metal (Fe37)	1xSn
Water	1xSn
P.V.C.	0.5xSn
Glass	0.5xSn
Wood	0.4xSn

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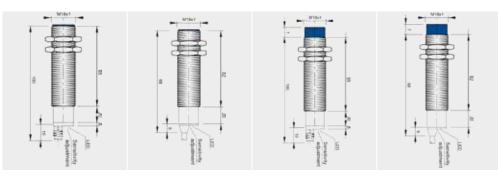




# CAPACITIVE BASIC, CAPACITIVE A.C., MULTIVOLTAGE

# **CAPACITIVE BASIC M18**



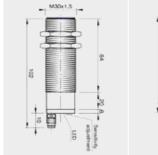


				STANDARD									
				FLL	JSH	NON FLUSH							
				M8 conn	cable	M8 conn	cable						
NOMINAL SWITCH	IING DISTAN	CE		15 mm	15 mm	110 mm	110 mm						
10-30 Vdc	PNP/NPN	4 wires											
10-50 Vul	NO-NC	4 wires	order No.										
10-30 Vdc	PNP	3 wires											
	NO	5 WIICS	order No.										
10-30 Vdc	PNP	3 wires											
	NC	Swites	order No.										
10-30 Vdc	NPN	3 wires											
	NO	5 WIIC5	order No.										
10-30 Vdc	NPN	3 wires	3 wires	3 wires	3 wires	3 wires							
10 30 100	NC			order No.									
10-30 Vdc	PNP	4 wires		C508K2	C508	CS14K2	CS14						
	NO-NC	4 WIICS	order No.	958901040	958901020	958901270	958901120						
10-30 Vdc	NPN /	4 wires		CS07K2	CS07	CS13K2	CS13						
10 50 140	NO-NC			-NC	order No.	958901000	958901160	958901250	958901100				
10-30 Vdc	NO-NC	2 wires											
10-30 Vuc	NO-NC	2 111125	order No.										
20-250 Vac/Vdc	NO	2 wires											
20-250 Vac7 Vac		2 wires	order No.										
20-250 Vac/Vdc	NC	NC	NC	NC	NC	NC	NC	2 wires					
20 250 1407 140		2 wires	2 WITES	2 WIES	2 Wiles	2 WIES	order No.						
20-250 Vac	NO	2/3wires											
20 200 vac		2/ 5 WIRES	Z/ 5 WIRES	2/3 WIPS	order No.								
10-30 Vdc	Analog	3 wires											
	0-20 mA	5 WIICS	order No.										
NAMUR amplifier	NAMUR	2 wires											
wainon ampillier	NAMUR	2 WIICS	order No.										

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
5	<10%	<10%	<10%	<10%
Residual Ripple				
Hysteresis		depends on the sensing distance	depends on the sensing distance	
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C	- 25 +70 C	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		160 g		160 g
Weight - Connector Output	120 g		120 g	

# **CAPACITIVE BASIC M30**











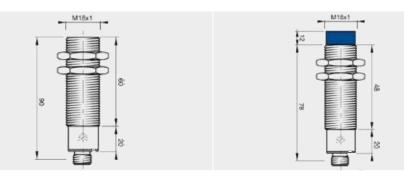
				STANDARD										
				FLL	ISH	NON FLUSH								
				M8 conn	cable	M8 conn	cable							
NOMINAL SWITCH	ING DISTAN	CE		115 mm	115 mm	125 mm	125 mm							
10-30 Vdc	PNP/NPN	4 wires												
10-30 vac	NO-NC	4 WIIES	order No.											
10-30 Vdc	PNP NO	3 wires	order No.											
	PNP													
10-30 Vdc	NC	3 wires	order No.											
10-30 Vdc	NPN	2												
10-50 Vul	NO	3 wires	order No.											
10-30 Vdc	NPN	3 wires												
10 50 142	NC	J WIES	order No.											
10-30 Vdc	PNP	4 wires		CS10K2	CS10	CS16K2	CS16							
	NO-NC		order No.	958901080	958901060	958901330	958901140							
10-30 Vdc	NPN 4		4 wires		CS09K2	CS09	CS15K2	CS15						
10 30 440	NO-NC	NO-NC	order No.	958901230	958901180	958901300	958901200							
10-30 Vdc	NO-NC 2	2 wires												
10-50 440		2 WIICS	order No.											
20-250 Vac/Vdc	NO	2 wires												
20-250 Vac/ Vuc	NO	2 WIICS	order No.											
20-250 Vac/Vdc	NC	NC	NC	NC	NC	NC	NC	NC	2 wires					
20 250 4407 440					2 wires	2 WIIES	order No.							
20-250 Vac	NO	2/3 wires												
20 200 040		2/ 5 001/05	order No.											
10-30 Vdc	Analog	3 wires												
	0-20 mA		order No.											
NAMUR amplifier	NAMUR	2 wires												
	NAMOR		order No.											

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		250 g		250 g
Weight - Connector Output	210 g		210 g	

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# **CAPACITIVE A.C. M18**



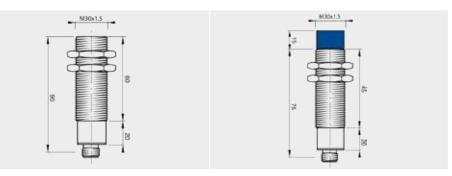


				STANDARD		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	IING DISTAN	CE		28 mm	215 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.	CSP40K4 958901380	CSP41K4 958901390	
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current	
Residual Ripple			<10%	<10%		
Hysteresis			< 15%	< 15%		
Max. Output Current			300 mA	300 mA		
Min. Output Curre	nt			2,5 mA	2,5 mA	
Residual Current				< 2,5 mA	< 2,5 mA	
Setting				sensitivity adjustment trimmer	sensitivity adjustment trimmer	
Operation Led				Yellow	Yellow	
Switching Frequer	тсу			25 Hz	25 Hz	
Chaut II. Dalau						

Start Up Delay		
Repeatability	< 5%	< 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Plastic (PBT)	Plastic (PBT)
Weight - Cable Output		
Weight - Connector Output	80 g	80 g

# CAPACITIVE A.C. M30





				STAN	DARD
				FLUSH	NON FLUSH
				M12 conn	M12 conn
NOMINAL SWITCHING DISTANCE			220 mm	230 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.		
10-30 Vdc	PNP NC	3 wires	order No.		
10-30 Vdc	NPN NO	3 wires	order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
10-30 Vdc	PNP NO-NC	4 wires	order No.		
10-30 Vdc	NPN NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.	CSP50K4 958901400	CSP51K4 958901410
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires	order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
Residual Ripple				<10%	<10%
Hysteresis				< 15%	< 15%
Maria Orithmatic Communication	- 1			200 4	200 I

Norman Voltage		
Residual Ripple	<10%	<10%
Hysteresis	< 15%	< 15%
Max. Output Current	300 mA	300 mA
Min. Output Current	2,5 mA	2,5 mA
Residual Current	< 2,5 mA	< 2,5 mA
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay		
Repeatability	< 5%	< 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Plastic (PBT)	Plastic (PBT)
Weight - Cable Output		
Weight - Connector Output	200 g	200 g

# CAPACITIVE MULTIVOLTAGE M30





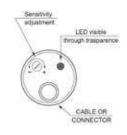


				STANDARD (TI	MER TRIMMER)
				FLUSH	NON FLUSH
				M12 conn	M12 conn
NOMINAL SWITCH	ING DISTAN	CE		20 mm	30 mm
10-30 Vdc	PNP/NPN	4 wires			
10 50 100	NO-NC		order No.		
10-30 Vdc	PNP NO	3 wires	order No.		
	PNP				
10-30 Vdc	NC	3 wires	order No.		
10.201/4-	NPN	2			
10-30 Vdc	NO	3 wires	order No.		
10-30 Vdc	NPN	3 wires			
10-30 Vac	NC	5 WIIES	order No.		
10-30 Vdc	PNP	4 wires			
	NO-NC	4 WIICS	order No.		
10-30 Vdc	NPN	4 wires			
	NO-NC		order No.		
10-30 Vdc	NO-NC	2 wires			
			order No.		
20-250 Vac/Vdc	NO	2 wires			
			order No.		
18230 VAC/DC	relay SPDT	6 wires	and an Na	C531	CS32
			order No.	958901150 CS32TD5	958901220 CS31TD5
18230 Vac/dc	relay SPDT (delay ON)	6 wires	andan Na	958901360	958901350
			order No.	CS32TE5	CS31TE5
18230 VAC/DC	relay SPDT (delay OFF)	6 wires	order No.	958901370	958901210
	(ucluy of 17		order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				18-230Vac/dc (-15/10%)	18-230Vac/dc (-15/10%)
Residual Ripple				<10%	<10%
Hysteresis				<10%	<10%

Normal Voltage	18-250VaC/UC (-15/10%)	10-250VaC/uc (-15/10%)
Residual Ripple	<10%	<10%
Hysteresis	<10%	<10%
Max. Output Current	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)
Absorption	2,5 VA	2,5 VA
Residual Current		
Setting	sensitivity and time adj. trimmer	sensitivity and time adj. trimmer
Operation Led	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz
Start Up Delay	<300 ms	<300 ms
Repeatability	<5%	<5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP65	IP65
Cable Length	2 m	2 m
Cable Section	6x0,30 mm²	6x0,30 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output	250 g	250 g
Weight - Connector Output		

# <sup>82</sup>ACS1 <sup>0GIC</sup> 23 rue Lavoisier 69680 CHASSIEU **TEL : 04 78 20 07 82** Mail : contact@acsi-lyon.com

# **CAPACITIVE SETTINGS & CONNECTIONS**



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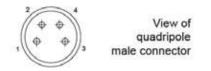
### Sensitivity adjustment

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the materials to detect, on its dimension and conductivity. The distance could change according to temperature variations.

### Timer adjustment

The timer trimmer allows to set a delay, on the activation (delay ON) or in the de-activation of the output, depends on the model, after the detection of the object. The output will remain active (or inactive) proportionally to the setting point of the screw, starting from 1 second up to 5 minutes.

### M8 4-pole NO-NC models

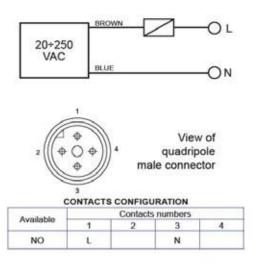


**BENSITIVITY ADJUS** 

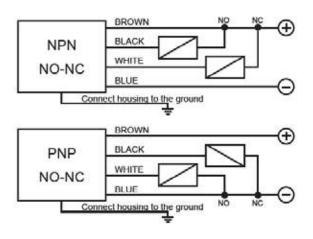
CONTACTS CONFIGURATION

0.4-4		Contacts	numbers	
Output	1	2	3	4
NPN/PNP NO+NC	+	NC	-	NO

### 2 wires Vac models



## 4 wires NO-NC Vdc model



### 6 wires Mulivoltage models



# **CABLES, CONNECTORS & ACCESSORIES**

2, 3, 4 wires M12, M8 connector Axial or radial 90° Shielded or unshielded Double key A.C. cable 3, 5, 7, 10, 15, 25m cable





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# CABLES, CONNECTORS & ACCESSORIES

# **CABLES, CONNECTORS & ACCESSORIES**

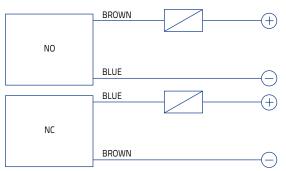
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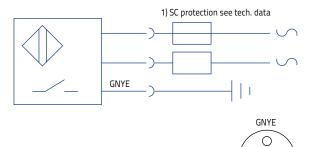
# **2 WIRES SENSORS**

#### 2 WIRES NO-NC



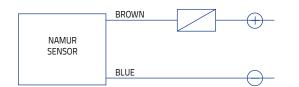
WARNING: The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.

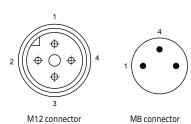
### INDUCTIVE AC



Double key connector for inductive AC sensors

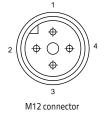
#### NAMUR





CONTACTS CONFIGURATION						
Available	Contact	s numbers				
Available	1	2	3	4		
NAMUR	+		-			





Available

NO

NC

Contacts numbers

2

1

+

\_

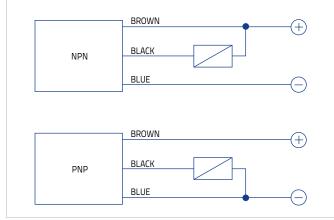
3

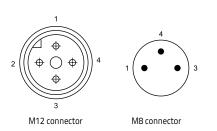
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+

# **3 WIRES SENSORS**

### 3 WIRES PNP or NPN, NO or NC

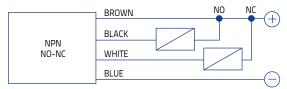


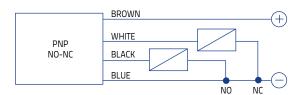


CONTACTS CONFIGURATION						
Available	Contacts	numbers				
Available	1	2	3	4		
(NO or NC)	+		-	NO/NC		

# **4 WIRES SENSORS**

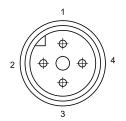
### 4 wires (NO+NC)





### 4 wires (PNP/NPN, NO/NC)

\	11	
	BROWN	)
NPN	WHITE	·
NO	BLACK	
	BLUE	)
		``````````````````````````````````````
NPN	WHITE	<i>,</i>
NC	BLACK	
	BROWN	)
	BROWN	Ś
PNP	WHITE	·
NO	BLACK	
	BLUE	)
		Ś
PNP	WHITE	<i>'</i>
NC	BLACK	
	BROWN	<b>`</b>
		1



	CONTACTS CONFIGURATION				
Qutaut	Contacts num	bers			
Output	1	2	3	4	
NO + NC	+	NC	-	NO	

	CONTACT	S CONFIGURA	TION	
Output	Contacts num	bers		
Output	1	2	3	4
NPN NO	+	NO	-	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP NC	-	+	+	NC

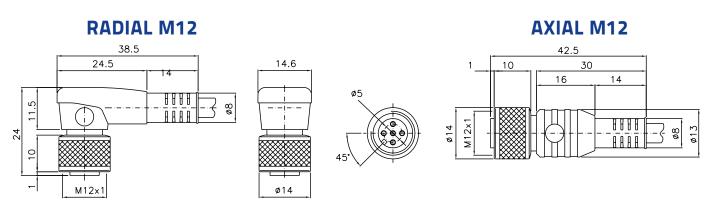
# **CABLES. CONNECTORS & ACCESSORIES**

CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.
			M8 3 m	CS-B1-01-G-03	95A251490
		Grey, P.V.C.	5 m	CS-B1-01-G-05	95A251490 95A251510
	3		2 m	CS-B1-01-R-02	95A251510
() () (iii)		P.U.R.	5 m	CS-B1-01-R-02	95A251580 95A251600
			3 m	CS-B1-01-R-05	95A251600 95A251500
		Grey, P.V.C.	5 m		
	3			CS-B2-01-G-05	95A251520
		P.U.R.	2 m	CS-B2-01-R-02	95A251590
			5 m	CS-B2-01-R-05	95A251610
			3 m	CS-B1-02-G-03	95A251420
M8 Connector		Grey, P.V.C.	5 m	CS-B1-02-G-05	95A251430
			7 m	CS-B1-02-G-07	95A251440
	4		10 m	CS-B1-02-G-10	95A251480
(AXIdI)		P.U.R.	2 m	CS-B1-02-R-02	95A251620
			5 m	CS-B1-02-R-05	95A251640
		OIL resistant	5 m	CS-B1-02-0-05	95A251730
		(CEI 2034-01)	10 m	CS-B1-02-0-10	95A251100
			3 m	CS-B2-02-G-03	95A251450
		Grey, PVC	5 m	CS-B2-02-G-05	95A251460
M8 Connector (Radial 90°) M12 Connector (Axial) M12 Connector (Radial 90°)			7 m	CS-B2-02-G-07	95A251470
	4		10 m	CS-B2-02-G-10	95A251530
(Radiai 90°)		P.U.R.	2 m	CS-B2-02-R-02	95A251630
			5 m	CS-B2-02-R-05	95A251650
		OIL resistant	5 m	CS-B2-02-0-05	95A251720
		(CEI 2034-01)	10 m	CS-B2-02-0-10	95A251110
			M12		
	3		3 m	CS-A1-01-G-03	95A251290
		Grey, P.V.C.	5 m	CS-A1-01-G-05	95A251300
			7 m	CS-A1-01-G-07	95A251320
			10 m	CS-A1-01-G-10	95A251340
		Grey, P.V.C.	3 m	CS-A2-01-G-03	95A251200
			5 m	CS-A2-01-G-05	95A251210
M12 Copportor			7 m	CS-A2-01-G-07	95A251220
	3		10 m	CS-A2-01-G-10	95A251230
		0IL resistant (CEI 2034-01)	3 m	CS-A2-01-0-03	95A251660
			5 m	CS-A2-01-0-05	95A251670
			10 m	CS-A2-01-0-10	95A251680
/12 Connector with LED		5 DV/5	5 m	CS-A2-11-G-05	95A251310
	3	Grey, P.V.C.	10 m	CS-A2-11-G-10	95A251330
	3	Grey, P.V.C.	10 m	CV-A1-21-G-10	95ACC2060
	2	Grey, 1.9.C.	2 m	CS-A1-21-R-02	95ACC8000
2 Connector Axial Double	3	Orange, P.V.C.	3 m	CS-A1-21-R-03	95ACC8010
eyd + PE for AC inductive	2	010180/110101	5 m	CS-A1-21-R-05	95ACC8020
			3 m	CS-A1-02-G-03	95A251380
M8 Connector (Radial 90°) M8 Connector (Radial 90°) M8 Connector (Raxial) M8 Connector (Axial) M8 Connector (Axial) M8 Connector (Radial 90°) M12 Connector (Radial 90°) M12 Connector (Radial 90°) M12 Connector (Axial) M12 Connector (Axial) M12 Connector (Axial) M12 Connector (Axial)			5 m	CS-A1-02-G-05	95A251360 95A251270
M12 Constant		Grey, P.V.C.	7 m	CS-A1-02-G-07	95A251270
M8 Connector (Axial) 90°)         Image: Connector (Radial 90°)           M8 Connector (Radial 90°)         Image: Connector (Axial)           M8 Connector (Axial)         Image: Connector (Axial)           M8 Connector (Axial) 90°)         Image: Connector (Axial)           M12 Connector (Radial 90°)         Image: Connector (Axial)           M12 Connector (Radial 90°)         Image: Connector (Axial)           M12 Connector (Axial)         Image: Connector (Axial)           M12 Connector (Axial) 90°)         Image: Connector (Axial)	4		10 m	CS-A1-02-G-10	95A251280 95A251390
,			2 m	CS-A1-02-R-02	95A251590
		P.U.R.	5 m	CS-A1-02-R-02	95A251540 95A251560
			3 m	CS-A2-02-G-03	
			5 m	CS-A2-02-G-03	95A251360 95A251240
		Grey, P.V.C.			
1420			7 m	CS-A2-02-G-07	95A251245
	4		10 m	CS-A2-02-G-10	95A251260
		P.U.R.	2 m	CS-A2-02-R-02	95A251550
			5 m	CS-A2-02-R-05	95A251570
		OIL resistant (CEI 2034-01)	5 m	CS-A2-02-0-05	95A251690
		(CLI 2004-01)	10 m	CS-A2-02-0-10	95A251700
142 C 1 11 1 C D			3 m	CS-A2-12-G-03	95A251400
	4	Grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350



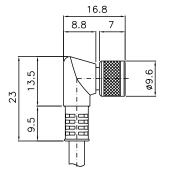
			3 m	CV-A1-22-B-03	95ACC1480
Shielded M12 Connector (Axial)			5 m	CV-A1-22-B-05	95ACC1490
	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500
			15 m	CV-A1-22-B-15	95ACC2070
		25 m	CV-A1-22-B-25	95ACC2090	
Shielded M12 Connector (Radial 90°)	4	Black, P.V.C.	3 m	CV-A2-22-B-03	95ACC1540
			5 m	CV-A2-22-B-05	95ACC1550
			10 m	CV-A2-22-B-10	95ACC1560
	4	U.L., Black, P.V.C.	3 m	CS-A1-02-U-03	95ASE1120
			5 m	CS-A1-02-U-05	95ASE1130
M12 Connector (Axial)			10 m	CS-A1-02-U-10	95ASE1140
() UNDIT			15 m	CS-A1-02-U-15	95ASE1150
			25 m	CS-A1-02-U-25	95ASE1160
		CONNECTOR	(not cabled)		
M12 Connector (Axial)	4	Black	Connector- not cabled	CS-A1-02-B-NC	G5085002
M12 Connector (Radial 90°)	4	Black	Connector- not cabled	CS-A2-02-B-NC	G5085003

CONNECTOR





M8×1

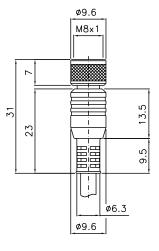


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**AXIAL M8** 

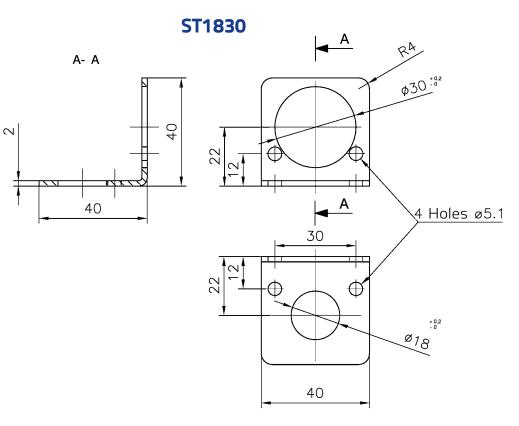


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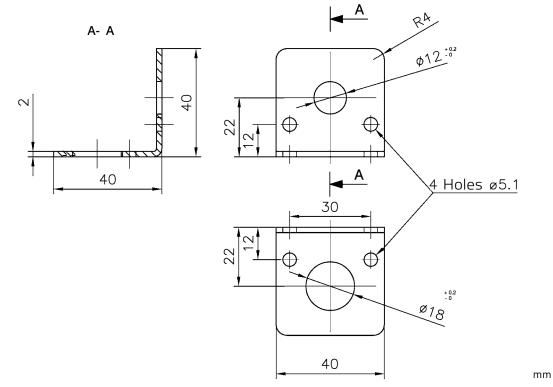
# CABLES, CONNECTORS & ACCESSORIES

# ACCESSORIES SELECTION AND ORDER INFORMATION

CONNECTOR	TYPE	MATERIAL	CODING	ORDER No.
M12	fixing bracket	Stainless Steel	ST1218	95ACC3340
M18	fixing bracket	Stainless Steel	ST1218	95ACC3340
M30	fixing bracket	Stainless Steel	ST1830	95ACC3350







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# INDUCTIVE

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IS-04-A1-03	95B061011	STAINLESS STEEL	34	IS-65-N2-03	95B0649
IS-04-A3-03	95B061001	STAINLESS STEEL	34		
				IS-65-N2-S1	95B0662
IS-05-A1-03	95B061041	BASIC	35	IS-65-N3-03	95B0648
IS-05-A1-S1	95B061051	BASIC	35	IS-65-N3-S1	95B0661
IS-05-A20-03	95B065410	NAMUR	62	IS-65-N4-03	95B0648
IS-05-A3-03	95B061021	BASIC	35	IS-65-N4-S1	95B0662
IS-05-A3-S1	95B061031	BASIC	35	12-02-04-21	3300002
IS-05-A4-03	95B065420	BASIC	35		
IS-05-E3-03	95B065400	BASIC	35		
				SENSOR	Order N
IS-65-A1-03	95B064730	BASIC	10	IS-08-A1-03	95B0611
IS-65-A1-S1	95B066050	BASIC	10	IS-08-A1-S1	95B0611
IS-65-A20-03	95B066290	NAMUR	63	IS-08-A1-S2	95B0611
IS-65-A20-S1	95B066310	NAMUR	63		
IS-65-A2-03	95B064770	BASIC	10	IS-08-A20-03	95B0667
IS-65-A2-S1	95B066090	BASIC	10	IS-08-A20-03	95B0667
IS-65-A3-03			10	IS-08-A20-S1	95B0667
	95B064650	BASIC		IS-08-A2-03	95B0611
IS-65-A3-S1	95B064970	BASIC	10	IS-08-A2-S1	95B0611
IS-65-A4-03	95B064690	BASIC	10	IS-08-A2-S2	95B0611
IS-65-A4-S1	95B066010	BASIC	10	IS-08-A3-03	95B0610
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IS-65-B1-S1	95B066070	BASIC	11	IS-08-A3-S1	95B0610
				IS-08-A3-S2	95B0610
IS-65-B2-03	95B064790	BASIC	11	IS-08-A4-03	95B0610
IS-65-B2-S1	95B066110	BASIC	11	IS-08-A4-S1	95B0611
IS-65-B3-03	95B064670	BASIC	11	IS-08-A4-S2	95B0611
IS-65-B3-S1	95B064990	BASIC	11		95B0619
IS-65-B4-03	95B064710	BASIC	11	IS-08-B1-03	
IS-65-B4-S1	95B066030	BASIC	11	IS-08-B1-S1	95B0668
				IS-08-B1-S2	95B0665
IS-65-C1-03	95B064890	BASIC	10	IS-08-B2-03	95B0619
IS-65-C1-S1	95B066210	BASIC	10	IS-08-B2-S1	95B0668
IS-65-C20-03	95B066300	NAMUR	63	IS-08-B2-S2	95B0666
IS-65-C20-S1	95B066320	NAMUR	63		
IS-65-C2-03	95B064930	BASIC	10	IS-08-B3-03	95B0618
IS-65-C2-S1	95B066250	BASIC	10	IS-08-B3-S1	95B0668
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				IS-08-B4-03	95B0618
IS-65-C3-S1	95B066130	BASIC	10	IS-08-B4-S1	95B0668
IS-65-C4-03	95B064850	BASIC	10	IS-08-B4-S2	95B0665
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IS-65-D2-03	95B064950	BASIC	11	IS-08-C1-S2	95B0615
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	95B066270			IS-08-C20-S1	95B0667
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IS-65-D3-S1	95B066150	BASIC	11	IS-08-C2-03	95B0615
IS-65-D4-03	95B064870	BASIC	11	IS-08-C2-S1	95B0615
IS-65-D4-S1	95B066190	BASIC	11		
IS-65-G1-03	95B064740	BASIC	12	IS-08-C2-S2	95B0615
				IS-08-C3-03	95B0664
IS-65-G1-S1	95B066060	BASIC	12	IS-08-C3-S1	95B0614
IS-65-G2-03	95B064780	BASIC	12	IS-08-C3-S2	95B0614
IS-65-G2-S1	95B066100	BASIC	12	IS-08-C4-03	95B0664
IS-65-G3-03	95B064660	BASIC	12	IS-08-C4-S1	95B0615
IS-65-G3-S1	95B064980	BASIC	12		
IS-65-G4-03	95B064700	BASIC	12	IS-08-C4-S2	95B0615
				IS-08-D1-03	95B0623
IS-65-G4-S1	95B066020	BASIC	12	IS-08-D1-S1	95B0669
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				IS-08-D3-03	95B0664
IS-65-H3-S1	95B066140	BASIC	13	IS-08-D3-S1	95B0669
IS-65-H4-03	95B064860	BASIC	13	IS-08-D3-S2	95B0666
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				IS-08-D4-S2	95B0666
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IS-65-M2-S1	95B066120	STAINLESS STEEL	36	IS-08-G1-S1	95B0668
IS-65-M3-03	95B064680	STAINLESS STEEL	36	IS-08-G1-S2	95B0665
IS-65-M3-S1	95B066000	STAINLESS STEEL	36		
IS-65-M4-03	95B064720	STAINLESS STEEL	36	IS-08-G2-03	95B0663
				IS-08-G2-S1	95B0668

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		STAINLESS STEEL	37
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	95B061141	BASIC	14
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IS-08-A20-S1	95B066780	NAMUR	64
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IS-08-A2-S1	95B061171	BASIC	14
IS-08-A2-S2	95B061161	BASIC	14
IS-08-A3-03	95B061061	BASIC	14
IS-08-A3-S1	95B061081	BASIC	14
IS-08-A3-S2	95B061071	BASIC	14
IS-08-A4-03	95B061091	BASIC	14
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IS-08-B2-03	95B061951	BASIC	16
IS-08-B2-S1	95B066890	BASIC	16
IS-08-B2-S2	95B066620	BASIC	16
IS-08-B3-03	95B061861	BASIC	16
IS-08-B3-S1	95B066810	BASIC	16
IS-08-B3-S2	95B066530	BASIC	16
IS-08-B4-03	95B061891	BASIC	16
IS-08-B4-S1	95B066830	BASIC	16
IS-08-B4-S2	95B066560	BASIC	16
IS-08-C1-03	95B061521	BASIC	15
IS-08-C1-S1	95B061541	BASIC	15
IS-08-C1-S2	95B061531	BASIC	15
IS-08-C20-03	95B066750	NAMUR	65
IS-08-C20-S1	95B066790	NAMUR	65
IS-08-C20-S2	95B066770	NAMUR	65
IS-08-C2-03	95B061551	BASIC	15
IS-08-C2-S1	95B061571	BASIC	15
IS-08-C2-S2	95B061561	BASIC	15
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	95B061481	BASIC	
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	95B066920	BASIC	
IS-08-D3-S2	95B066650	BASIC	17
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IS-08-H1-S1	95B066960	BASIC	19
IS-08-H1-S2	95B066690	BASIC	19
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IS-08-M3-03	95B066340	STAINLESS STEEL	38
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IS-08-M4-S2	95B066570	STAINLESS STEEL	38
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IS-08-N4-03	95B066470	STAINLESS STEEL	39
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IS-12-A1-03	95B061241	BASIC	20
IS-12-A1-S2	95B061251	BASIC	20
IS-12-A15-03	95B060680	INDUCTIVE AC	56
IS-12-A15-S2	95B060690	INDUCTIVE AC	56
IS-12-A20-03	95B064160	NAMUR	66
IS-12-A20-S2	95B064180	NAMUR	66
IS-12-A2-03	95B061271	BASIC	20
IS-12-A2-S2	95B061281	BASIC	20
IS-12-A3-03	95B061181	BASIC	20
IS-12-A3-S2	95B061191	BASIC	20
IS-12-A4-03	95B061211	BASIC	20
IS-12-A4-S2	95B061221	BASIC	20
IS-12-A9-03	95B064100	BASIC	20
IS-12-A9-S2	95B063931	BASIC	20
IS-12-B1-03	95B062041	BASIC	21
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IS-12-B3-03	95B061981	BASIC	21
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IS-12-C1-03	95B061641	BASIC	20
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IS-12-C20-03	95B064170	NAMUR	66
IS-12-C20-S2	95B064190	NAMUR	66
IS-12-C2-03	95B061671	BASIC	20
IS-12-C2-S2	95B061681	BASIC	20
IS-12-C3-03	95B061581	BASIC	20
IS-12-C3-S2	95B061591	BASIC	20
IS-12-C4-03	95B061611	BASIC	20
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IS-12-E3-03	95B067690	BASIC	22
IS-12-E3-S2	95B067650	BASIC	22
IS-12-E4-03	95B067700	BASIC	22
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IS-18-A4-03	95B061321	BASIC	24
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IS-30-E9-S2	95B067400	BASIC	30
IS-30-F0-03	95B067370	BASIC	30
IS-30-F0-S2	95B067410	BASIC	30
IS-30-F1-03	95B068030	BASIC	30
IS-30-F1-S2	95B067990	BASIC	30
IS-30-F2-03	95B068040	BASIC	30
IS-30-F2-S2	95B068000	BASIC	30
IS-30-F3-03	95B068050	BASIC	30
IS-30-F3-S2	95B068010	BASIC	30
IS-30-F4-03	95B068060	BASIC	30
IS-30-F4-S2	95B068020	BASIC	30
IS-30-F9-03	95B067380	BASIC	30
IS-30-F9-S2	95B067420	BASIC	30
IS-30-G1-03	95B067420 95B063681	BASIC	31
IS-30-G1-S2			
	95B063691 95B063701	BASIC	31
IS-30-G2-03 IS-30-G2-S2		BASIC	31
	95B063711	BASIC	31
IS-30-G3-03	95B063641	BASIC	31
IS-30-G3-S2	95B063651	BASIC	31
IS-30-G4-03	95B063661	BASIC	31
IS-30-G4-S2	95B063671	BASIC	31
IS-30-G5-03	95B063821	BASIC	31
IS-30-G5-S2	95B063831	BASIC	31
IS-30-G6-03	95B064400	BASIC	31
IS-30-G6-S2	95B064430	BASIC	31
IS-30-H1-03	95B063761	BASIC	31
IS-30-H1-S2	95B063771	BASIC	31
IS-30-H2-03	95B063781	BASIC	31
IS-30-H2-S2	95B063791	BASIC	31
IS-30-H3-03	95B063721	BASIC	31
IS-30-H3-S2	95B063731	BASIC	31
IS-30-H4-03	95B063741	BASIC	31

IS-30-H4-52         95B063751         BASIC         31           IS-30-H5-03         95B064420         BASIC         31           IS-30-H5-52         95B064450         BASIC         31           IS-30-H5-52         95B064450         BASIC         31           IS-30-H6-03         95B064410         BASIC         31           IS-30-H6-52         95B06440         BASIC         31           IS-30-H6-52         95B06440         BASIC         31           IS-30-M1-52         95B06400         STAINLESS STEEL         44           IS-30-M2-52         95B060400         STAINLESS STEEL         44           IS-30-M3-52         95B060420         STAINLESS STEEL         44           IS-30-M4-52         95B060430         STAINLESS STEEL         44           IS-30-N1-52         95B060400         STAINLESS STEEL         44           IS-30-N2-52         95B060450         STAINLESS STEEL         44           IS-30-N2-52         95B060450         STAINLESS STEEL         44           IS-30-N3-52         95B060460         STAINLESS STEEL         44           IS-30-04-52         95B060170         STAINLESS STEEL         45           IS-30-03-52         95B060170				
IS-30-H5-S2         95B064450         BASIC         31           IS-30-H5-S2         95B064450         BASIC         31           IS-30-H6-03         95B06440         BASIC         31           IS-30-H6-S2         95B06440         BASIC         31           IS-30-H6-S2         95B06440         BASIC         31           IS-30-H5-S2         95B060400         STAINLESS STEEL         44           IS-30-M2-S2         95B060420         STAINLESS STEEL         44           IS-30-M3-S2         95B060430         STAINLESS STEEL         44           IS-30-M4-S2         95B060400         STAINLESS STEEL         44           IS-30-N1-S2         95B060400         STAINLESS STEEL         44           IS-30-N2-S2         95B060400         STAINLESS STEEL         44           IS-30-N2-S2         95B060450         STAINLESS STEEL         44           IS-30-N2-S2         95B060460         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         45           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-04-S2 <td< td=""><td>IS-30-H4-S2</td><td>95B063751</td><td>BASIC</td><td>31</td></td<>	IS-30-H4-S2	95B063751	BASIC	31
IS-30-H6-03         95B064410         BASIC         31           IS-30-H6-52         95B064440         BASIC         31           IS-30-H6-S2         95B060400         STAINLESS STEEL         44           IS-30-M1-S2         95B060400         STAINLESS STEEL         44           IS-30-M2-S2         95B060420         STAINLESS STEEL         44           IS-30-M4-S2         95B060430         STAINLESS STEEL         44           IS-30-M4-S2         95B060430         STAINLESS STEEL         44           IS-30-N1-S2         95B060400         STAINLESS STEEL         44           IS-30-N1-S2         95B060400         STAINLESS STEEL         44           IS-30-N2-S2         95B060450         STAINLESS STEEL         44           IS-30-N2-S2         95B060460         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         45           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-04-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060200         STAINLESS STEEL         45	IS-30-H5-03	95B064420	BASIC	31
IS-30-H6-S2         95B06440         BASIC         31           IS-30-H6-S2         95B06440         BASIC         31           IS-30-M1-S2         95B060400         STAINLESS STEEL         44           IS-30-M2-S2         95B060410         STAINLESS STEEL         44           IS-30-M3-S2         95B060420         STAINLESS STEEL         44           IS-30-M4-S2         95B060430         STAINLESS STEEL         44           IS-30-M4-S2         95B060400         STAINLESS STEEL         44           IS-30-N1-S2         95B060400         STAINLESS STEEL         44           IS-30-N2-S2         95B060400         STAINLESS STEEL         44           IS-30-N2-S2         95B060460         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-N4-S2         95B060160         STAINLESS STEEL         44           IS-30-01-S2         95B060170         STAINLESS STEEL         45           IS-30-02-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           <	IS-30-H5-S2	95B064450	BASIC	31
IS-30-M1-S2         95B060400         STAINLESS STEEL         44           IS-30-M2-S2         95B060410         STAINLESS STEEL         44           IS-30-M2-S2         95B060420         STAINLESS STEEL         44           IS-30-M3-S2         95B060430         STAINLESS STEEL         44           IS-30-M4-S2         95B060430         STAINLESS STEEL         44           IS-30-M4-S2         95B060440         STAINLESS STEEL         44           IS-30-N1-S2         95B060400         STAINLESS STEEL         44           IS-30-N2-S2         95B060450         STAINLESS STEEL         44           IS-30-N3-S2         95B060460         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         45           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-03-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060200         STAINLESS STEEL         45 </td <td>IS-30-H6-03</td> <td>95B064410</td> <td>BASIC</td> <td>31</td>	IS-30-H6-03	95B064410	BASIC	31
IS-30-M2-S2         95B060410         STAINLESS STEEL         44           IS-30-M3-S2         95B060420         STAINLESS STEEL         44           IS-30-M4-S2         95B060430         STAINLESS STEEL         44           IS-30-M4-S2         95B060430         STAINLESS STEEL         44           IS-30-N1-S2         95B060440         STAINLESS STEEL         44           IS-30-N2-S2         95B060450         STAINLESS STEEL         44           IS-30-N2-S2         95B060460         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-N4-S2         95B060160         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         45           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-04-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060200         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060200         STAINLESS STEEL         45           IS-30-P3-S2         95B060200         STAINLESS STEEL         45 </td <td>IS-30-H6-S2</td> <td>95B064440</td> <td>BASIC</td> <td>31</td>	IS-30-H6-S2	95B064440	BASIC	31
IS-30-M3-52       95B060420       STAINLESS STEEL       44         IS-30-M4-52       95B060430       STAINLESS STEEL       44         IS-30-N4-52       95B060440       STAINLESS STEEL       44         IS-30-N1-52       95B060450       STAINLESS STEEL       44         IS-30-N2-52       95B060460       STAINLESS STEEL       44         IS-30-N3-52       95B060460       STAINLESS STEEL       44         IS-30-N4-52       95B060460       STAINLESS STEEL       44         IS-30-N4-52       95B060460       STAINLESS STEEL       44         IS-30-01-52       95B060160       STAINLESS STEEL       45         IS-30-02-52       95B060170       STAINLESS STEEL       45         IS-30-02-52       95B060180       STAINLESS STEEL       45         IS-30-04-52       95B060190       STAINLESS STEEL       45         IS-30-04-52       95B060200       STAINLESS STEEL       45         IS-30-02-52       95B060200       STAINLESS STEEL       45         IS-30-02-52       95B060200       STAINLESS STEEL       45         IS-30-P3-52       95B060200       STAINLESS STEEL       45         IS-30-P3-52       95B060200       STAINLESS STEEL       45	IS-30-M1-S2	95B060400	STAINLESS STEEL	44
IS-30-M4-S2         95B060430         STAINLESS STEEL         44           IS-30-N1-S2         95B060440         STAINLESS STEEL         44           IS-30-N1-S2         95B060450         STAINLESS STEEL         44           IS-30-N2-S2         95B060450         STAINLESS STEEL         44           IS-30-N3-S2         95B060460         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         44           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-02-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-04-S2         95B060200         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060200         STAINLESS STEEL         45           IS-30-P3-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060200         STAINLESS STEEL         45	IS-30-M2-S2	95B060410	STAINLESS STEEL	44
IS-30-N1-S2         95B06040         STAINLESS STEEL         44           IS-30-N2-S2         95B060460         STAINLESS STEEL         44           IS-30-N2-S2         95B060460         STAINLESS STEEL         44           IS-30-N3-S2         95B060470         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         44           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-03-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060200         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060200         STAINLESS STEEL         45           IS-30-P3-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060220         STAINLESS STEEL         45	IS-30-M3-S2	95B060420	STAINLESS STEEL	44
IS-30-N2-S2         95B060450         STAINLESS STEEL         44           IS-30-N3-S2         95B060460         STAINLESS STEEL         44           IS-30-N3-S2         95B060470         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         45           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-03-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060200         STAINLESS STEEL         45           IS-30-P3-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060220         STAINLESS STEEL         45	IS-30-M4-S2	95B060430	STAINLESS STEEL	44
IS-30-N3-S2         95B060460         STAINLESS STEEL         44           IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         45           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-03-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-04-S2         95B060200         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P3-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060220         STAINLESS STEEL         45	IS-30-N1-S2	95B060440	STAINLESS STEEL	44
IS-30-N4-S2         95B060470         STAINLESS STEEL         44           IS-30-01-S2         95B060160         STAINLESS STEEL         45           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-03-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-04-S2         95B060200         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060220         STAINLESS STEEL         45	IS-30-N2-S2	95B060450	STAINLESS STEEL	44
IS-30-01-S2         95B060160         STAINLESS STEEL         45           IS-30-02-S2         95B060170         STAINLESS STEEL         45           IS-30-03-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060220         STAINLESS STEEL         45	IS-30-N3-S2	95B060460	STAINLESS STEEL	44
IS-30-02-S2         958060170         STAINLESS STEEL         45           IS-30-03-S2         958060180         STAINLESS STEEL         45           IS-30-04-S2         958060190         STAINLESS STEEL         45           IS-30-04-S2         958060190         STAINLESS STEEL         45           IS-30-P1-S2         958060200         STAINLESS STEEL         45           IS-30-P2-S2         958060210         STAINLESS STEEL         45           IS-30-P3-S2         958060220         STAINLESS STEEL         45	IS-30-N4-S2	95B060470	STAINLESS STEEL	44
IS-30-03-S2         95B060180         STAINLESS STEEL         45           IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060220         STAINLESS STEEL         45	IS-30-01-S2	95B060160	STAINLESS STEEL	45
IS-30-04-S2         95B060190         STAINLESS STEEL         45           IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060200         STAINLESS STEEL         45	IS-30-02-S2	95B060170	STAINLESS STEEL	45
IS-30-P1-S2         95B060200         STAINLESS STEEL         45           IS-30-P2-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060220         STAINLESS STEEL         45	IS-30-03-S2	95B060180	STAINLESS STEEL	45
IS-30-P2-S2         95B060210         STAINLESS STEEL         45           IS-30-P3-S2         95B060220         STAINLESS STEEL         45	IS-30-04-S2	95B060190	STAINLESS STEEL	45
IS-30-P3-S2 95B060220 STAINLESS STEEL 45	IS-30-P1-S2	95B060200	STAINLESS STEEL	45
	IS-30-P2-S2	95B060210	STAINLESS STEEL	45
IS-30-P4-S2 95B060230 STAINLESS STEEL 45	IS-30-P3-S2	95B060220	STAINLESS STEEL	45
	IS-30-P4-S2	95B060230	STAINLESS STEEL	45
SQUARE		SQU	JARE	

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SENSOR	Order No.	Category	Pag.
IS-40-C11-S3	95B065330	SQUARE	74
IS-40-W5-S3	95B065240	SQUARE	72
IS-40-W6-S3	95B065230	SQUARE	72
IS-40-W7-S3	95B065250	SQUARE	73
IS-40-W8-S3	95B065260	SQUARE	73
IS-40-X5-S2	95B065320	SQUARE	74
IS-40-X6-S2	95B065310	SQUARE	74
IS-40-Y5-S3	95B065280	SQUARE	72
IS-40-Y6-S3	95B065270	SQUARE	72
IS-40-Y7-S3	95B065290	SQUARE	73
IS-40-Y8-S3	95B065300	SQUARE	73
IS-88-Q1-03	95B060830	SQUARE	75
IS-88-Q1-S1	95B060840	SQUARE	75

### CAPACITIVE

	N	118	
SENSOR	Order No.	Category	Pag.
CS08K2	958901040	basic	78
CS07K2	958901000	basic	78
CS08	958901020	basic	78
CS07	958901160	basic	78
CS14K2	958901270	basic	78
CS13K2	958901250	basic	78
CS14	958901120	basic	78
CS13	958901100	basic	78
CSP40K4	958901380	Capacitve A.C.	80
CSP41K4	958901390	Capacitve A.C.	80

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SENSOR	Order No.	Category	Pag.
CS10K2	958901080	basic	79
CS10	958901060	basic	79
CS16K2	958901330	basic	79
CS16	958901140	basic	79
CS09K2	958901230	basic	79
CS09	958901180	basic	79
CS15K2	958901300	basic	79
CS15	958901200	basic	79
CSP50K4	958901400	Capacitve A.C.	81
CSP51K4	958901410	Capacitve A.C.	81
CS31	958901150	Multi-voltage (timer)	82
CS32	958901220	Multi-voltage (timer)	82
CS31TD5	958901350	Multi-voltage (timer)	82
CS32TD5	958901360	Multi-voltage (timer)	82
CS31TE5	958901210	Multi-voltage (timer)	82
CS32TE5	958901370	Multi-voltage (timer)	82



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