

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.

## Factory Automation

- 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 simple vision sensors to smart cameras and embedded vision systems.

## Laser Marking

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)

## 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 $\geq 3$ sn and the distance between two proximity switches (side-byside) $\geq 2 \mathrm{D}$.

## 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 $\geq 2$ sn from the metallic installation medium. The distance from opposing metal surfaces must be $\geq 3$ sn and the distance between two adjacent proximity switches $\geq 3 D$. 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.

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 1 mm 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 reduction factors of the main metals used in industry.

| REDUCING FACTOR |  |
| :--- | :--- |
| Fe37 | $1 \times \mathrm{Sn}^{*}$ |
| Stainless-steel | $0,9 \times 5 \mathrm{Sn}$ |
| Brass-Bronze | $0,5 \times 5 \mathrm{Sn}$ |
| Alluminium | $0,4 \times 5 \mathrm{n}$ |
| Copper | $0,3 \times 5 \mathrm{n}$ |

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 100 mA .
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).

M12/18/30 FLUSH models are ATEX certified
II 3D EX tD A22 IP67 T85 ${ }^{\circ} \mathrm{C}$

## NAMUR version:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers, in explosive systems or Zone 1 and Zone 2 areas.
The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection.

OPERATING DISTANCE

| MODEL | M4 | M5 | M6,5 | M8 | M12 | M18 | M30 | SQUARE |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| DIAMETER (mm) | 4 | 5 | 6,5 | 8 | 12 | 18 | 30 | $8 \times 8 ; 40 \times 40$ |
| OPERATING DISTANCE $(\mathrm{mm})$ | 0,8 | $0,8 \ldots 1,5$ | $1 \ldots 3$ | $1,5 . . .3$ | $2 \ldots 8$ | $5 \ldots 14$ | $10 \ldots 20$ | $1,5 \ldots . .30$ |

## HOUSING LENGTHS

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

| MODELS | STANDARD |  | SHORT |  |
| :---: | :---: | :---: | :---: | :---: |
|  | connector | cable | connector | cable |
| M4 | --- | 25 | --- | -- |
| M5 | 40 | 20... 25 | --- | -- |
| M6,5 | 53... 63 | 46... 55 | 50... 54 | 40... 44 |
| M8 | 52... 73 | 44... 55 | 48... 57 | 40... 44 |
| M12 | 68... 72 | 58... 64 | 48... 54 | 42... 48 |
| M18 | 73... 82 | 70... 78 | 56... 65 | 47... 56 |
| M30 | 74... 85 | 70... 82 | 56... 68 | 49... 56 |

WIRES

| TYPE | description |
| :--- | :--- |
| 2-3 WIRES | Work with sinking or sourcing devices |
|  | Vdc, Vac and NAMUR versions |
| H WIRES | Higher leakage current |
|  | Must select PNP or NPN, NC or NO version |
|  | 10-30 Vdc version |
|  | Low leakage current |
|  | Programmable output |

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.

- Nickel-plated Brass housing
- 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
- Stainless Steel housing
- 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
- IP67 protection

INDUCTIVE AC
54
NAMUR
60

- Nickel-plated Brass housing
- Standard length
- Operating distance 2 ... 10 mm
- M12, M18, M30
- cable or M12 connector
- $20+250 \mathrm{Vac}(50,60 \mathrm{~Hz})$
- 2 or 3 wires
- NO
- IP67 protection
- Stainless Steel housing
- Short length
- Operating distance 0.8 ... 15 mm
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO
- IP67 protection


- flush
- Stainless Steel
- op.dist.: $0,8 \mathrm{~mm}$
- diameter: 4 mm
- 3 wires
- PNP or NPN, N.O.
- cable


## M5

- flush
- Stainless Steel
- op.dist.: 0,8 mm
- double range vers.: $1,5 \mathrm{~mm}$
- 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


## M12

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 2 ... 4 mm
- double range vers.: 4 ... 8 mm
- diameter: 12 mm
- standard or short housing
- 2, 3, 4 (programmable NPN/PNP output) wires
- Vac/Vdc vers.
- Metal Face vers.
- NAMUR vers.
- Field Immune vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
METAL FACE
- Stainless Steel housing
- Stainless Steel active face
- Standard length
- 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

|  |  |
| :--- | :--- |
|  |  |
| SQUARE | 70 |

- PBT (resin) or Nickel-plated Brass housing
- Operating distance 1.5 ... 15 mm
- $40 \times 40 \mathrm{~mm}$ or $8 \times 8 \mathrm{~mm}$ dimension
- cable, M8 connector or Terminal Block
- 2 or 3 wires
- PNP, PNP/NPN, NO, NC, NO/NC
- IP67


## 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

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CABLES, CONNECTORS \& ACCESSORIES 76

- 2,3,4 wires
- M12, M8 connector
- axial or radial $90^{\circ}$
- shielded or unshielded
- double key
- A.C. cable
- 3,5, 7, 10, 15, 25m cable


## M18

- flush, non-flush
- Stainless Steel, Nickel platedBrass
- op.dist.: 5 ... 8 mm
- double range vers.: 8 ... 14 mm
- diameter: 18 mm
- standard or short housing
- 2, 34 (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


## M30

- flush, non-flush
- Stainless Steel, Nickel platedBrass
- op.dist.: 10... 15 mm
- double range vers.: 15... 20 mm
- diameter: 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


## SQUARE 40X40

- flush, non-flush
- standard or short housing
- Plastic (PBT resin)
- op.dist.: 15... $30 \mathrm{~mm} ; 7-20 \mathrm{~mm}$
(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.: $1,5 \mathrm{~mm}$
- diameter: 8 mm
- 3 wires, PNP, N.O.
- M8 connector or cable


## BASIC

Nickel-plated Brass housing
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

## 

"M12/18/30 모델은 Diversey \& ECOLAB 테스트(세제에 대한 부식)를 거친 제품입니다"

## 

BASIC M6. 5



| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 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 mm | 200 mA | 200 mm | 200 mA |
| --- | --- | --- | --- |
| < $1,6 \mathrm{~mA}$ | < 1,6 mA | < $1,6 \mathrm{~mA}$ | < $1,6 \mathrm{~mA}$ |
| $<1,2 \mathrm{~V}$ (l= 100 mA ) | $<1,2 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,2 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,2 \mathrm{~V}$ (l=100 mA) |
| 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 reversal inductive loads |
| $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| --- | $3 \times 0,14 \mathrm{~mm}^{2}$ | --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 80 g | --- | 80 g |
| 40 g | --- | 40 g | --- |



| SH0RI |  |  |  |
| :---: | :---: | :---: | :---: |
| FLUSH |  | NON FLUSH |  |
| 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 (l=100mA) | < 1,2 V (l=100mA) | < 1,2 V (I=100mA) | < 1,2 V (l=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 reversal inductive loads |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| --- | $3 \times 0,14 \mathrm{~mm}^{2}$ | -- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 80 g | -- | 80 g |
| 40 g | --- | 40 g | --- |

## BASIC. M6.5



## SHORT X2

```
FLUSH
```

| NOMINAL SWITCHING DISTANCE |  |  |  |
| :--- | :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20 mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |


| 2 mm | 2 mm |
| :---: | :---: |
| --- | --- |
| --- | --- |
| IS-65-G1-S1 | 1S-65-G1-03 |
| $95 \mathrm{B066060}$ | $95 \mathrm{B064740}$ |
| IS-65-G2-S1 | IS-65-G2-03 |
| 95B066100 | 95B064780 |
| IS-65-G3-S1 | 1S-65-G3-03 |
| 95B064980 | 95 B064660 |
| IS-65-G4-S1 | 1S-65-G4-03 |
| $95 B 066020$ | 95B064700 |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |


| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 10-30 Vdc (-15/10\%) | 10-30 Vdc (-15/10\%) |
| :---: | :---: |
| < 10\% | < 10\% |
| < 10\% | < 10\% |
| 200 mA | 200 mA |
| --- | --- |
| < 10 mA | < 10 mA |
| $<1,2 \mathrm{~V}$ ( $=100 \mathrm{~mA}$ ) | $<1,2 \mathrm{~V}$ (l= 100 mA ) |
| Yellow | Yellow |
| 500 Hz | 500 Hz |
| $<75 \mathrm{~ms}$ | $<75 \mathrm{~ms}$ |
| < $3 \%$ | < $3 \%$ |
| Present (self-resetting) | Present (self-resetting) |
| Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | 2 m |
| --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass |
| --- | 80 g |
| 40 g | --- |



SHORT X 2
NON FLUSH

| M8 conn | cable |
| :---: | :---: |
| 3 mm | 3 mm |
| --- | --- |
| --- | --- |
| IS-65-H1-S1 | IS-65-H1-03 |
| 958066220 | $95 \mathrm{B064900}$ |
| IS-65-H2-S1 | IS-65-H2-03 |
| 95B066260 | 95B064940 |
| IS-65-H3-S1 | IS-65-H3-03 |
| 958066140 | 95B064820 |
| IS-65-H4-S1 | IS-65-H4-03 |
| 958066180 | $95 \mathrm{B064860}$ |
| --- | --- |
| --- | --- |
| --- | - |
| --- | --- |
| --- | --- |
| -- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | -- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | -- |
| --- | --- |
|  |  |
| 10-30 Vdc (-15/10\%) | 10-30 Vdc (-15/10\%) |
| < 10\% | < 10\% |
| < 10\% | < $10 \%$ |
| 200 mA | 200 mA |
| --- | --- |
| < 10 mA | < 10 mA |
| $<1,2 \mathrm{~V}$ ( $=100 \mathrm{~mA}$ ) | $<1,2 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) |
| Yellow | Yellow |
| 500 Hz | 500 Hz |
| < 75 ms | < 75 ms |
| < 3\% | < 3\% |
| Present (self-resetting) | Present (self-resetting) |
| Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | 2 m |
| --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass |
| --- | 80 g |
| 40 g | --- |

## BASIC M8





| STANDARD |  |  |
| :---: | :---: | :---: |
| NON FLUSH |  |  |
| M8 conn | M12 conn | cable |
| 2 mm | 2 mm | 2 mm |
| --- | --- | --- |
| --- | --- | --- |
| 15-08-C1-51 | 15-08-C1-52 | 15-08-C1-03 |
| 958061541 | 958061531 | 958061521 |
| 15-08-C2-51 | 15-08-C2-52 | 15-08-C2-03 |
| 958061571 | 958061561 | 958061551 |
| 15-08-C3-51 | 15-08-C3-52 | 15-08-C3-03 |
| 958061481 | 958061471 | 958066410 |
| 15-08-C4-51 | 15-08-C4-52 | 15-08-C4-03 |
| 958061511 | 958061501 | 958066450 |
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| -- | --- | --- |
|  |  |  |
| 10-30 Vdc (-15/10\%) | 10-30 Vac (-15/10\%) | 10-30 Vdc (-15/10\%) |
| < $10 \%$ | < $10 \%$ | < $10 \%$ |
| < $10 \%$ | < $10 \%$ | < $10 \%$ |
| 200 mA | 200 mA | 200 mA |
| --- | --- | --- |
| < 10 mA | $<10 \mathrm{~mA}$ | < 10 mA |
| $<1,2 \mathrm{~V}$ ( $=100 \mathrm{~mA}$ ) | <1,2 V (l= $100 \mathrm{mA)}$ | <1,2 V (I $=100 \mathrm{~mA}$ ) |
| Yellow | Yellow | Yellow |
| 1000 Hz | 1000 Hz | 500 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 |
| $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ | $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ | $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ |
| 1P67 | 1P67 | 1P67 |
| --- | --- | 2 m |
| --- | --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
|  |  | 80 g |
| 35g | 55g | --- |

## BASIC M8




| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 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 ( $1=100 \mathrm{~mA}$ ) | < 1,2 V (l= 100 mA ) | $<1,2 \mathrm{~V}$ (l= 100 mA ) |
| 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 |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 |
| --- | --- | 2 m |
| -- | --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
|  |  | 80 g |
| 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 |
| $95 \mathrm{B066970}$ | $95 \mathrm{B066700}$ | $95 \mathrm{B062321}$ |
| 1S-08-D2-S1 | 1S-08-D2-S2 | IS-08-D2-03 |
| 958067000 | 958066720 | 95 B 062351 |
| IS-08-D3-S1 | 1S-08-D3-S2 | IS-08-D3-03 |
| 958066920 | $95 \mathrm{B066650}$ | 95B066430 |
| 1S-08-D4-S1 | 1S-08-D4-S2 | IS-08-D4-03 |
| 958066940 | 958066670 | 95 B 062291 |
| --- | --- | --- |
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| --- | --- | --- |
|  |  |  |
| $10-30 \operatorname{Vdc}(-15 / 10 \%)$ | 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 |
| $<1,2 \vee(1=100 \mathrm{~mA})$ | $<1,2 \vee(1=100 \mathrm{~mA})$ | $<1,2 \vee$ (l= $=100 \mathrm{~mA}$ ) |
| 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 |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 |
| --- | --- | 2 m |
| --- | --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
|  |  | 80 g |
| 35g | 55g | --- |

BASIC M8



| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 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 (l= 100 mA ) | < 1,2 V (l= 100 mA ) | $<1,2 \mathrm{~V}$ (l= 100 mA ) |
| 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 |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 |
| -- | --- | 2 m |
| - | --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
|  |  | 80 g |
| 35 g | 55g | --- |



| SHORT X2 |  |  |
| :---: | :---: | :---: |
| NoN FLUSH |  |  |
| M8 conn | M12 conn | cable |
| 3 mm | 3 mm | 3 mm |
| --- | --- | --- |
| --- | --- | --- |
| $15-08-\mathrm{H1}-\mathrm{S} 1$ | 15-08-H1-S2 | $15-08-\mathrm{H1}-03$ |
| 958066960 | 958066690 | 958066480 |
| 15-08-H2-S1 | 15-08-H2-S2 | 15-08-H2-03 |
| 958066990 | 958063301 | 958066500 |
| $15-08-\mathrm{Hz-51}$ | 15-08-H3-52 | $15-08-\mathrm{Hz}-03$ |
| 958066910 | 958066640 | 958066420 |
| 15-08-H4-51 | 15-08-H4-S2 | 15-08-H4-03 |
| 958063251 | 958063241 | 958066460 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
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| --- | --- | --- |
| --- | --- | --- |
| -- | --- | --- |
| 20, |  |  |
| 10-30 Vdc (-15/10\%) | $10-30 \mathrm{Vdc}(-15 / 10 \%)$ | 10-30 Vac (-15/10\%) |
| < $10 \%$ | < $10 \%$ | < $10 \%$ |
| < $10 \%$ | < $10 \%$ | < $10 \%$ |
| 200 mA | 200 mA | 200 mA |
| --- | --- | --- |
| < 10 mA | $<10 \mathrm{~mA}$ | < 10 mA |
| $<1,2 \mathrm{~V}(1=100 \mathrm{~mA})$ | <1,2 V (l= $100 \mathrm{mA)}$ | <1,2 V (I $=100 \mathrm{~mA}$ ) |
| Yellow | Yellow | Yellow |
| 500 Hz | 500 Hz | 500 Hz |
| $<75 \mathrm{~ms}$ | < 75 ms | $<75 \mathrm{~ms}$ |
| < 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 |
| $\left(-25 . . .+60^{\circ} \mathrm{C}\right)$ | $\left(-25 . . .+60^{\circ} \mathrm{C}\right)$ | $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ |
| 1P67 | 1P67 | 1P67 |
| --- | --- | 2 m |
| --- | --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
|  |  | 80 g |
| 35g | 55g | --- |



| SH0RI |  |  |  |
| :---: | :---: | :---: | :---: |
| FLUSH |  | NON FLUSH |  |
| 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 |
| $95 \mathrm{B061991}$ | 95B061981 | 95B062391 | 95B062381 |
| IS-12-B4-S2 | IS-12-B4-03 | IS-12-D4-S2 | IS-12-D4-03 |
| 95B062021 | 95B062011 | 95B062421 | 95B062411 |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
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| --- | --- | -- | --- |
| --- | --- | - | --- |
| --- | --- | --- | --- |
| --- | --- | --- | -- |
|  |  |  |  |
| 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 (l= 100 mA ) | $<1,8 \mathrm{~V}$ (l=100mA) | < 1,8 V (l=100mA) | < 1,8 V (l=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 reversal inductive loads |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
|  | 2 m | --- | 2 m |
|  | $3 \times 0,25 \mathrm{~mm}^{2}$ | -- | $3 \times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 110 g | -- | 110 g |
| 60 g | --- | 60 g | --- |

## BASIC M12




| S-0R1 <2 |  |  |  |
| :---: | :---: | :---: | :---: |
| FLUSH |  | NON FLUSH |  |
| M12 con | cable | M12 conn | cable |
| 4 mm | 4 mm | 8 mm | 8 mm |
| IS-12-G0-S2 | IS-12-G0-03 | IS-12-H0-S2 | IS-12-H0-03 |
| 95B064070 | 95B063841 | 95B064090 | 95B064050 |
| 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 |
| IS-12-G9-S2 | IS-12-G9-03 | IS-12-H9-S2 | IS-12-H9-03 |
| 95B064130 | 95B063801 | 95B064150 | 95B064120 |
| --- | --- | --- | --- |
| -- | --- | --- | --- |
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| --- | --- | --- | --- |
| -- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | -- | --- | --- |
|  |  |  |  |
| 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 |
| > $1,6 \mathrm{~mA}$ (2wires ver.) | > 1,6 mA (2wires ver.) | > 1,6 mA (2wires ver.) | > $1,6 \mathrm{~mA}$ ( 2 wires ver.) |
| < 10 mA | < 10 mA | < 10 mA | < 10 mA |
| $<1,2 \mathrm{~V}$ ( $=100 \mathrm{~mA}$ ) | < 1,2 V ( $1=100 \mathrm{~mA}$ ) | < 1,2 V (l=100mA) | < 1,2 V (l= 100 mA ) |
| Yellow | Yellow | Yellow | Yellow |
| 500 Hz | 500 Hz | 500 Hz | 500 Hz |
| < 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 |
| $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m |  | 2 m |
| --- | $3 \times 0,25 \mathrm{~mm}^{2}$ |  | $3 \times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 110 g | --- | 110 g |
| 60 g | --- | 60 g | --- |

BASIC M18



| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 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 |
| $>1,6 \mathrm{~mA}$ (2wires ver.) | > $1,6 \mathrm{~mA}$ (2wires ver.) | $>1,6 \mathrm{~mA}$ (2wires ver.) | $>1,6 \mathrm{~mA}$ (2wires ver.) |
| $<10 \mathrm{~mA}$ | < 10 mA | < 10 mA | < 10 mA |
| $<1,8 \mathrm{~V}_{\mathrm{i}}<6,5 \mathrm{~V}$ (2wires ver.) | < $1,8 \mathrm{~V}_{;}<6,5 \mathrm{~V}$ (2wires ver.) | < $1,8 \mathrm{~V}_{\mathrm{i}}<6,5 \mathrm{~V}$ (2wires ver.) | < $1,8 \mathrm{~V} \mathrm{~V}_{\text {; }}<6,5 \mathrm{~V}$ (2 wires ver.) |
| 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 reversal inductive loads |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| --- | 2/3/4 $\times 0,25 \mathrm{~mm}^{2}$ | --- | 2/3/4 $\times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 145g | --- | 145g |
| 95g | --- | 95g | --- |



| SH0 R1 |  |  |  |
| :---: | :---: | :---: | :---: |
| FLUSH |  | NON FLUSH |  |
| 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 |
| $95 \mathrm{B062171}$ | 95B062161 | 95B062571 | 95B062561 |
| IS-18-B3-S2 | IS-18-B3-03 | IS-18-D3-S2 | IS-18-D3-03 |
| $95 \mathrm{B062111}$ | 95B062101 | $95 \mathrm{B062511}$ | 95B062501 |
| IS-18-B4-S2 | IS-18-B4-03 | IS-18-D4-S2 | IS-18-D4-03 |
| 95B062131 | 95B062121 | 95B062531 | 95B062521 |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | - | --- | --- |
| --- | -- | --- | -- |
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| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| -- | --- | --- | --- |
|  |  |  |  |
| 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 |
| $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) |
| 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 reversal inductive loads |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| --- | $3 \times 0,25 \mathrm{~mm}^{2}$ | --- | $3 \times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 145g | --- | 145g |
| 95g | --- | 95g | --- |

## BASIC M18





| SH0R $\times 2$ |  |  |  |
| :---: | :---: | :---: | :---: |
| FLUSH |  | NON FLUSH |  |
| M12 conn | cable | M12 conn | cable |
| 8 mm | 8 mm | 14 mm | 14 mm |
| IS-18-G0-S2 | IS-18-G0-03 | IS-18-H0-S2 | IS-18-H0-03 |
| 95B064270 | 95B063851 | 95B064290 | 95B064250 |
| 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 |
| IS-18-G9-S2 | IS-18-G9-03 | IS-18-H9-S2 | IS-18-H9-03 |
| 95B064330 | 95B063811 | 95B064350 | 95B064320 |
| -- | --- | --- | --- |
| -- | --- | --- | --- |
| -- | --- | --- | --- |
| --- | --- | --- | --- |
| -- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| -- | --- | --- | --- |
| --- | --- | --- | --- |
| -- | --- | --- | --- |
|  |  |  |  |
| 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 |
| > $1,6 \mathrm{~mA}$ (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 (l=100mA) | < 1,2 V (l=100mA) | < 1,2 V (l= 100 mA ) | < 1,2 V (l= 100mA) |
| Yellow | Yellow | Yellow | Yellow |
| 400 Hz | 400 Hz | 400 Hz | 400 Hz |
| < 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 |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| --- | $3 \times 0,25 \mathrm{~mm}^{2}$ | --- | $3 \times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 145g | --- | 145g |
| 95g | -- | 95g | --- |

BASIC MRO



| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 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\% |
| 200mA; 100 mA (2wires) | 200mA; 100 mA (2wires) | 200mA; 100 mA (2wires) | 200mA; 100 mA (2wires) |
| > 1,6 mA (2wires) | > 1,6 mA (2wires) | > 1,6 mA (2wires) | > 1,6 mA (2wires) |
| < 1,6 mA | < 1,6 mA | < 1,6 mA | < 1,6 mA |
| < 1,8V; < 6,5 V (2wires) | < 1,8V; < 6,5 V (2wires) | < 1,8Vi < 6,5 V (2wires) | < 1,8Vi < 6,5 V (2wires) |
| 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 reversal inductive loads |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| --- | 2/3/4 $\times 0,25 \mathrm{~mm}^{2}$ | --- | 2/3/4 $\times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 210 g | --- | 210 g |
| 170 g | --- | 170 g | --- |



| SH0 RI |  |  |  |
| :---: | :---: | :---: | :---: |
| FLUSH |  | NON FLUSH |  |
| 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 |
| $<1,8 \vee(1=100 \mathrm{~mA})$ | $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,8 \vee(1=100 \mathrm{~mA})$ | $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) |
| 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 reversal inductive loads |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| --- | $3 \times 0,25 \mathrm{~mm}^{2}$ | -- | $3 \times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 210 g | --- | 210 g |
| 170 g | --- | 170 g | --- |

BASIC MRO



| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 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 (l= 100mA) | < 1,2 V (l= 100 mA ) | < 1,2 V (l=100mA) | < 1,2 V (l= 100 mA ) |
| Yellow | Yellow | Yellow | Yellow |
| 200 Hz | 200 Hz | 200 Hz | 200 Hz |
| < 75 ms | < 75 ms | $<75 \mathrm{~ms}$ | < 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 |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| - | $3 \times 0,25 \mathrm{~mm}^{2}$ | --- | $3 \times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| --- | 210 g | -- | 210 g |
| 170 g | --- | 170 g | --- |



| SIANDARD <2 |
| :---: |
| FLUSH |
| M12 conn |
| 15 mm |
| --- |
| --- |
| IS-30-E1-S2 |
| 95B067060 |
| --- |
| --- |
| --- |
| --- |
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| --- |
| --- |
| --- |
| --- |
| --- |
| --- |
| --- |

$10-30 \operatorname{Vdc}(-15 / 10 \%)$
< $10 \%$
< 10\%
200 mA
< 10 mA
$<6,5 \mathrm{~V}(\mathrm{l}=100 \mathrm{~mA})$

Against polarity reversal inductive loads

Nickel-plated brass

170 g

## STAINLESSSSTEE

Stainless Steel housing
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
IP67 protection

## 

"M12/18/30 모델은 Diversey \& ECOLAB 테스트(세제에 대한 부식)를 거친 제품입니다"

## $C \in$ ©(L) ussstio $^{\text {Diversẽey }}$ ECOLAB

FLUSH 모델은 ATEX 인증 제품입니다

## STAINLIESS STEELIML

| NOMINAL SWITCHING DISTANCE |  |  |  | 0,8 mm |
| :---: | :---: | :---: | :---: | :---: |
| 10-30 Vdc | PNP/NPN NO-NC | 4 wires | order No. | --- |
|  |  |  |  | --- |
| 10-30 Vdc | $\begin{aligned} & \text { PNP } \\ & \text { NO } \end{aligned}$ | 3 wires | order No. | \|S-04-A1-03 |
|  |  |  |  | $95 \mathrm{B061011}$ |
| 10-30 Vdc | $\begin{aligned} & \text { PNP } \\ & \text { NC } \end{aligned}$ | 3 wires | order No. | --- |
|  |  |  |  | --- |
| 10-30 Vdc | $\begin{aligned} & \text { NPN } \\ & \text { NO } \end{aligned}$ | 3 wires | order No. | 15-04-A3-03 |
|  |  |  |  | $95 \mathrm{B061001}$ |
| 10-30 Vdc | $\begin{aligned} & \text { NPN } \\ & \text { NC } \end{aligned}$ | 3 wires | order No. | --- |
|  |  |  |  | --- |
| 10-30 Vdc | $\begin{aligned} & \text { PNP } \\ & \text { NO-NC } \end{aligned}$ | 3 wires | order No. | --- |
|  |  |  |  | --- |
| 10-30 Vdc | $\begin{aligned} & \text { NPN } \\ & \text { NO-NC } \end{aligned}$ | 3 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/Vdc | NO | 2/3wires | order No. | --- |
|  |  |  |  | --- |
| Analog 0-20mA | - | 3 wires | order No. | --- |
|  |  |  |  | --- |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. | --- |
|  |  |  |  | --- |


| Nominal Voltage | $10-30 \mathrm{Vdc}(-15 / 10 \%)$ |
| :--- | :---: |
| Residual Ripple | $<10 \%$ |
| Hysteresis | $<15 \%$ |
| Max. Output Current | 100 mA |
| Min. Output Current | --- |
| Residual Current | $<0,01 \mathrm{~mA}$ |
| Voltage Drop | $<1,5 \mathrm{~V}$ |
| Operation Led | Yellow |
| Switching Frequency | 2000 Hz |
| Start Up Delay | --- |
| Repeability | Present (self-resetting) |
| Short Circuit Protection | Against polarity reversal |
| inductive loads |  |
| Electric Protection | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| Temperature Limit | IP67 |
| Protection Degree | $2 \mathrm{~m}($ PUR $)$ |
| Cable Length | $3 x 0,15 \mathrm{~mm} \mathrm{~m}^{2}$ |
| Cable Section | Stainless-Steel |
| Housing Material | 50 g |
| Weight - Cable Output | --- |
| Weight - M12 Connector Output |  |



STAINLESS STEEL_M6. 5



SHORT STAINLESS STEEL

## FLUSH

M8 conn
cable
NOMINAL SWITCHING DISTANCE

| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires | order No. |
| :--- | :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NC | 3 wires | order No. |
| $10-30$ Vdc | PNP <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |



| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 10-30 Vdc (-15/10\%) | $10-30 \mathrm{Vdc}(-15 / 10 \%)$ |
| :---: | :---: |
| < 10\% | < 10\% |
| < 10\% | < 10\% |
| 200 mA | 200 mA |
| --- | --- |
| < 10 mA | < 10 mA |
| $<1,2 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,2 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) |
| 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 |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | --- |
| --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Stainless-Steel | Stainless-Steel |
| ---- | 80 g |
| 40 g | --- |



## SHORT STAINLESS STEEL

```
NON FLUSH
```

| M8 conn | cable |
| :---: | :---: |
| 2 mm | 2 mm |
| --- | --- |
| --- | -- |
| IS-65-N1-S1 | IS-65-N1-03 |
| $95 B 066240$ | $95 B 064920$ |
| IS-65-N2-S1 | IS-65-N2-03 |
| $95 B 066280$ | $95 B 064960$ |
| IS-65-N3-S1 | IS-65-N3-03 |
| $95 B 066160$ | $95 B 064840$ |
| IS-65-N4-S1 | IS-65-N4-03 |
| $95 B 066200$ | $95 B 064880$ |$10-30 \operatorname{Vdc}(-15 / 10 \%)$

$10-30 \operatorname{Vdc}(-15 / 10 \%)$
< 10\%
< $10 \%$
< 10\%
200 mA
200 mA
< 10 mA
$<1,2 \mathrm{~V}$ (I=100mA)
Yellow
1000 Hz
< 50 ms
< 3\%
Present (self-resetting)
Against polarity reversal inductive loads
$\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$
IP67

Stainless-Steel
< 10 mA
$<1,2 \mathrm{~V}$ (I=100mA)
Yellow

## 1000 Hz

< 50 ms
< 3\%
Present (self-resetting)
Against polarity reversal
inductive loads
$\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$
IP67
$3 \times 0,14 \mathrm{~mm}^{2}$
Stainless-Steel

40 g

STAINIESSSTIEEL_M8



SHORT STAINLESS STEEL
NON FLUSH

|  | NON FLUSH |  |
| :---: | :---: | :---: |
| M8 conn | M12 conn | cable |
| 2 mm | 2 mm | 2 mm |
| --- | --- | --- |
| -- | --- | --- |
| IS-08-N1-S1 | IS-08-N1-S2 | IS-08-N1-03 |
| $95 \mathrm{B066980}$ | $95 \mathrm{B066710}$ | $95 \mathrm{B066490}$ |
| IS-08-N2-S1 | IS-08-N2-S2 | IS-08-N2-03 |
| 958067010 | 958066730 | 958066510 |
| IS-08-N3-S1 | IS-08-N3-S2 | IS-08-N3-03 |
| 95B066930 | $95 \mathrm{B066660}$ | $95 \mathrm{B066440}$ |
| IS-08-N4-S1 | IS-08-N4-S2 | IS-08-N4-03 |
| 958066950 | $95 \mathrm{B066680}$ | 958066470 |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
|  |  |  |
| 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 |
| $<1,2 \mathrm{~V}$ ( $=100 \mathrm{~mA}$ ) | $<1,2 \mathrm{~V}$ ( $=100 \mathrm{~mA}$ ) | $<1,2 \vee$ ( $=100 \mathrm{~mA}$ ) |
| 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 |
| $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 |
| --- | --- | --- |
| --- | --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Stainless-Steel | Stainless-Steel | Stainless-Steel |
| --- | --- | 80 g |
| 35g | 55g | --- |

STAINLEESS STEEI_M12


## SHORT STAINLESS STEEL

| NOMINAL SWITCHING DISTANCE |  |  |  |
| :--- | :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |



| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 10-30 Vdc (-15/10\%) | 10-30 Vdc (-15/10\%) |
| :---: | :---: |
| < 10\% | < 10\% |
| < 10\% | < 10\% |
| 200 mA | 200 mA |
| --- | --- |
| < 10 mA | < 10 mA |
| $<1,8 \mathrm{~V}$ (l= 100 mA ) | <1,8V (l= 100 mA ) |
| 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 |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | --- |
| --- | --- |
| Stainless-Steel | Stainless-Steel |
| --- | --- |
| 60 g | 60 g |


| SHORI STANLESS STEEL X2 |  |
| :---: | :---: |
| FLUSH | NON FLUSH |
| M12 conn | M12 conn |
| 4 mm | 8 mm |
| --- | --- |
| --- | --- |
| IS-12-01-S2 | IS-12-P1-S2 |
| 958060000 | 95B060040 |
| 1S-12-02-52 | 1S-12-P2-S2 |
| 958060010 | 958060050 |
| 1S-12-03-52 | 1S-12-P3-S2 |
| 95B060020 | 958060060 |
| IS-12-04-S2 | 1S-12-P4-S2 |
| $95 \mathrm{B060030}$ | 958060070 |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
|  |  |
| 10-30 Vdc (-15/10\%) | 10-30 Vdc (-15/10\%) |
| < 10\% | < 10\% |
| < 10\% | < 10\% |
| 200 mA | 200 mA |
| --- | --- |
| $<10 \mathrm{~mA}$ | < 10 mA |
| $<1,2 \mathrm{~V}$ ( $=100 \mathrm{~mA}$ ) | $<1,2 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) |
| Yellow | Yellow |
| 500 Hz | 500 Hz |
| $<75 \mathrm{~ms}$ | $<75 \mathrm{~ms}$ |
| < 3\% | < 3\% |
| Present (self-resetting) | Present (self-resetting) |
| Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 . . .+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | --- |
| --- | --- |
| Stainless-Steel | Stainless-Steel |
| --- | --- |
| 60 g | 60 g |

GTAINEESSGTEEM.M18


## SHORT STAINLESS STEEL

| NOMINAL SWITCHING DISTANCE |  |  |  |
| :--- | :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |


| 5 mm | 8 mm |
| :---: | :---: |
| --- | --- |
| --- | -- |
| \|S-18-M1-S2 | IS-18-N1-S2 |
| 95B060320 | 95B060360 |
| IS-18-M2-S2 | 1S-18-N2-S2 |
| 95B060330 | 958060370 |
| 15-18-M3-52 | 1S-18-N3-S2 |
| 958060340 | 95B060380 |
| 15-18-M4-S2 | 1S-18-N4-S2 |
| 958060350 | 958060390 |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |


| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 10-30 Vdc (-15/10\%) | 10-30 Vdc (-15/10\%) |
| :---: | :---: |
| < 10\% | < $10 \%$ |
| < 10\% | < 10\% |
| 200 mA | 200 mA |
| --- | --- |
| < 10 mA | < 10 mA |
| $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) |
| 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 |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | --- |
| --- | --- |
| Stainless-Steel | Stainless-Steel |
| --- | --- |
| 95g | 95g |


| SHORT STANHESS SIEEL X2 |  |
| :---: | :---: |
| FLUSH | NON FLUSH |
| M12 conn | M12 conn |
| 8 mm | 14 mm |
| --- | --- |
| --- | -- |
| 15-18-01-S2 | IS-18-P1-S2 |
| 95B060080 | $95 \mathrm{B060120}$ |
| 15-18-02-S2 | IS-18-P2-S2 |
| 958060090 | 958060130 |
| \|S-18-03-S2 | IS-18-P3-S2 |
| 958060100 | 958060140 |
| 1S-18-04-S2 | IS-18-P4-S2 |
| 958060110 | 95B060150 |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
|  |  |
| 10-30 Vdc (-15/10\%) | 10-30 Vdc (-15/10\%) |
| < $10 \%$ | < 10\% |
| < 10\% | < 10\% |
| 200 mA | 200 mA |
| -- | --- |
| $<10 \mathrm{~mA}$ | $<10 \mathrm{~mA}$ |
| $<1,2 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) | $<1,2 \mathrm{~V}$ ( $=100 \mathrm{~mA}$ ) |
| Yellow | Yellow |
| 400 Hz | 400 Hz |
| < 75 ms | < 75 ms |
| < 3\% | < $3 \%$ |
| Present (self-resetting) | Present (self-resetting) |
| Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | --- |
| --- | --- |
| Stainless-Steel | Stainless-Steel |
| --- | --- |
| 95g | 95g |

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## SHORT STAINLESS STEEL

| NOMINAL SWITCHING DISTANCE |  |  |  |
| :--- | :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |



| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 10-30 Vdc (-15/10\%) | $10-30 \operatorname{Vdc}(-15 / 10 \%)$ |
| :---: | :---: |
| < 10\% | < 10\% |
| < 10\% | < 10\% |
| 200 mA | 200 mA |
| --- | --- |
| < 10 mA | < 10 mA |
| $<1,8 \mathrm{~V}$ ( $\mathrm{l}=100 \mathrm{~mA}$ ) | $<1,8 \mathrm{~V}$ ( $1=100 \mathrm{~mA}$ ) |
| Yellow | Yellow |
| 300 Hz | 300 Hz |
| < 50 ms | < 50 ms |
| < $3 \%$ | < $3 \%$ |
| Present (self-resetting) | Present (self-resetting) |
| Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | --- |
| --- | --- |
| Stainless-Steel | Stainless-Steel |
| --- | --- |
| 170 g | 170 g |



| SHORT SIANLESS SIEEL X2 |  |
| :---: | :---: |
| FLUSH | NON FLUSH |
| M12 conn | M12 conn |
| 15 mm | 20 mm |
| --- | --- |
| --- | --- |
| 15-30-01-52 | 1S-30-P1-S2 |
| 958060160 | 958060200 |
| 15-30-02-52 | 1S-30-P2-S2 |
| 958060180 | 958060210 |
| 15-30-03-52 | 1S-30-P3-52 |
| $95 \mathrm{B060180}$ | $95 \mathrm{B060220}$ |
| 15-30-04-52 | 1S-30-P4-52 |
| 958060190 | 95B060230 |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
| --- | --- |
|  |  |
| 10-30 Vdc (-15/10\%) | 10-30 Vdc (-15/10\%) |
| < 10\% | < $10 \%$ |
| < 10\% | < $10 \%$ |
| 200 mA | 200 mA |
| --- | --- |
| < 10 mA | < 10 mA |
| $<1,2 \vee(1=100 \mathrm{~mA})$ | $<1,2 \vee(1=100 \mathrm{~mA})$ |
| Yellow | Yellow |
| 200 Hz | 200 Hz |
| $<75 \mathrm{~ms}$ | $<75 \mathrm{~ms}$ |
| < $3 \%$ | < 3\% |
| Present (self-resetting) | Present (self-resetting) |
| Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | --- |
| --- | --- |
| Stainless-Steel | Stainless-Steel |
| --- | --- |
| 170 g | 170 g |

## METAL FACE

Stainless Steel housing
Stainless Steel active face
Standard length
2 ... 8 mm
M12, M18
M12 connector3 wires
PNP, NO
IP67 protection

## 

"M12/18/30 모델은 Diversey \& ECOLAB 테스트(세제에 대한 부식)를 거친 제품입니다"

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M12/18/30 FLUSH 모델은 ATEX 인증을 받은 제품입니다



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METAL FACE
70


## METAL FACE M12



## METAL FACE M18



| FLUSH NONAL FACE FLUSH |
| :---: | :---: | :---: |


| NOMINAL SWITCHING DISTANCE |  |  |  |
| :--- | :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24$ Vdc | 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 | $>1,6 \mathrm{~mA}$ | $>1,6 \mathrm{~mA}$ |
| Residual Current | < $0,01 \mathrm{~mA}$ | < $0,01 \mathrm{~mA}$ |
| Voltage Drop | < $1,5 \mathrm{~V}$ | < $1,5 \mathrm{~V}$ |
| Operation Led | Present | Present |
| Switching Frequency | 1000 Hz | 500 Hz |
| Start Up Delay | --- | --- |
| Repeability | < $1 \%$ | < $1 \%$ |
| Short Circuit Protection | Present (self-resetting) | Present (self-resetting) |
| Electric Protection | Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| Temperature Limit | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| Protection Degree | IP67 | IP67 |
| Cable Length | --- | --- |
| Cable Section | --- | --- |
| Housing Material | Stainless-Steel | Stainless-Steel |
| Weight - Cable Output | --- | --- |
| Weight - M12 Connector Output | 95g | 95g |

## 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


## "M12/18/30 모델은 Diversey \& ECOLAB 테스트(세제에 대한 부식)를 거친 제품입니다"

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M12/18/30 FLUSH 모델은 ATEX 인증을 받은 제품입니다

## WELD FIELD IMMUNE

## WELD FIELD IMMUNE M12



| FIELD IMMUNE STAINLESS STEEL |  |
| ---: | :--- |
| FLUSH | NON FLUSH |


| NOMINAL SWITCHING DISTANCE |  |  |  | 2 mm | 4 mm |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10-30 Vdc | PNP/NPN <br> NO-NC | 4 wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| 10-30 Vdc | $\begin{aligned} & \text { PNP } \\ & \text { NO } \end{aligned}$ | 3 wires | order No. | IS-F12-S1-S2 | IS-F12-T1-S2 |
|  |  |  |  | 95B065360 | $95 \mathrm{B065370}$ |
| 10-30 Vdc | $\begin{aligned} & \text { PNP } \\ & \text { NC } \end{aligned}$ | 3 wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| $10-30 \mathrm{Vdc}$ | $\begin{aligned} & \text { NPN } \\ & \text { NO } \end{aligned}$ | 3 wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| 10-30 Vdc | $\begin{aligned} & \text { NPN } \\ & \text { NC } \end{aligned}$ | 3 wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| 10-30 Vdc | $\begin{aligned} & \text { PNP } \\ & \text { NO-NC } \end{aligned}$ | 3 wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| 10-30 Vdc | $\begin{aligned} & \text { NPN } \\ & \text { NO-NC } \end{aligned}$ | 3 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/Vdc | NO | 2/3wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| Analog 0-20mA | - | 3 wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| $5+24 \mathrm{Vdc}$ | 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 |  |  |  | $<10 \mathrm{~mA}$ | $<10 \mathrm{~mA}$ |
| Residual Current |  |  |  | $<0,1 \mathrm{~mA}$ | < 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 |
| Repeability |  |  |  | < $1 \%$ | < 1\% |
| Short Circuit Protection |  |  |  | Present (self-resetting) | Present (self-resetting) |
| Electric Protection |  |  |  | Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| Temperature Limit |  |  |  | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| Protection Degree |  |  |  | IP67 | IP67 |
| Cable Length |  |  |  | --- | --- |
| Cable Section |  |  |  | --- | --- |
| Housing Material |  |  |  | Stainless-Steel | Stainless-Steel |
| Weight - Cable Output |  |  |  | --- | --- |
| Weight - M12 Connector Output |  |  |  | 25g | 23g |

## WALD.EIEIDIMMUNFM18




## INDUCTIVE AC

Nickel-plated Brass housing
Standard length
Operating distance 2 ... 10 mm
M12, M18, M30
cable or M12 connector
$20+250 \mathrm{Vac}(50,60 \mathrm{~Hz})$
2 or 3 wires
NO
IP67 protection

## 

"M12/18/30 모델은 Diversey \& ECOLAB 테스트(세제에 대한 부식)를 거친 제품입니다"

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M12/18/30 FLUSH 모델은 ATEX 인증을 받은 제품입니다


## INDUCTIVE AC

## INDUGGTIVEAC M12



STANDARD VAC

## FLUSH

M12 conn
cable

| NOMINAL SWITCHING DISTANCE |  |  |  |
| :--- | :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires | order No. |
| $10-30$ Vdc | NPN <br> NC | 3 wires | order No. |
| $10-30$ Vdc | PNP <br> NO-NC | 3 wires | order No. |
| $10-30$ Vdc | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |



| Nominal Voltage | $20+250 \mathrm{Vac}(50,60 \mathrm{~Hz})$ | $20+250 \mathrm{Vac}(50,60 \mathrm{~Hz})$ |
| :---: | :---: | :---: |
| Residual Ripple | < 10\% | < 10\% |
| Hysteresis | < $10 \%$ | < 10\% |
| Max. Output Current | 500 mA , inrush:1,5A | 500 mA , inrush:1,5A |
| Min. Output Current | 20 mA | 20 mA |
| Residual Current | < $0,7 \mathrm{~mA}$ | $<0,7 \mathrm{~mA}$ |
| Voltage Drop | $<4 \mathrm{~V}$ (I=100mA) | $<4 \mathrm{~V}(1=100 \mathrm{~mA})$ |
| Operation Led | Yellow | Yellow |
| Switching Frequency | 25 Hz | 25 Hz |
| Start Up Delay | < 300 ms | < 300 ms |
| Repeability | 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 | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| Protection Degree | IP67 | IP67 |
| Cable Length | --- | 2 m |
| Cable Section | --- | $2 \times 0,25 \mathrm{~mm}^{2}$ |
| Housing Material | Nickel-plated brass | Nickel-plated brass |
| Weight - Cable Output | --- | 145g |
| Weight - M12 Connector Output | 95g | --- |

## INDUCTIVEAC M18



STANDARD VAC

## FLUSH



| NOMINAL SWITCHING DISTANCE |  |  |  |
| :--- | :--- | :--- | :--- |
| $10-30$ Vdc | PNP/NPN <br> NO-NC | 4 wires | order No. |
| $10-30$ Vdc | PNP <br> NO | 3 wires | order No. |
| $10-30$ Vdc | PNP <br> NC | 3 wires | order No. |
| $10-30$ Vdc | NPN <br> NO | 3 wires | order No. |
| $10-30$ Vdc | NPN <br> NC | 3 wires | order No. |
| $10-30$ Vdc | PNP <br> NO-NC | 3 wires | order No. |
| $10-30$ Vdc | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac/Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |


| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| $20+250 \mathrm{Vac}(50,60 \mathrm{~Hz})$ | $20+250 \mathrm{Vac}(50,60 \mathrm{~Hz})$ |
| :---: | :---: |
| < 10\% | < 10\% |
| < 10\% | < 10\% |
| 500 mA , inrush:1,5A | 500 mA , inrush:1,5A |
| 20 mA | 20 mA |
| < 0,7 mA | < 0,7 mA |
| $<4 \mathrm{~V}(\mathrm{l}=100 \mathrm{~mA})$ | $<4 \mathrm{~V}(1=100 \mathrm{~mA})$ |
| Yellow | Yellow |
| 25 Hz | 25 Hz |
| < 300 ms | < 300 ms |
| 5\% | 5\% |
| Present (self-resetting) | Present (self-resetting) |
| Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 |
| --- | 2 m |
| --- | $2 \times 0,25 \mathrm{~mm}^{2}$ |
| Nickel-plated brass | Nickel-plated brass |
| --- | 145g |
| 95g | --- |


| ( |
| :--- |

## NAMUR

Stainless Steel housing<br>Short length<br>Operating distance 0.8 ... 15 mm<br>M12, M18<br>Cable, M8 or M12 connector<br>2 wires<br>IP67 protection

## 

"M12/18/30 모델은 Diversey \& ECOLAB 테스트(세제에 대한 부식)를 거친 제품입니다"

## C

M12/18/30 FLUSH 모델은 ATEX 인증을 받은 제품입니다

## NAMUR M5



## NAMUR M65




| NOMINAL SWITCHING DISTANCE |  |  |
| :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires |
| $10-30 \mathrm{Vdc}$ | NPN <br> NC | 3 wires |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO-NC | 3 wires |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO-NC | 3 wires |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires |
| Analog 0-20mA | - | 3 wires |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires |


| NAMUR |  |  |  |
| :---: | :---: | :---: | :---: |
| FLUSH |  | NON FLUSH |  |
| M8 conn | cable | M8 conn | cable |
| 1 mm | 1 mm | 2 mm | 2 mm |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| --- | -- | --- | --- |
| --- | --- | --- | --- |
| --- | --- | -- | --- |
| --- | -- | --- | --- |
| --- | --- | --- | --- |
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| --- | --- | --- | --- |
| --- | --- | -- | --- |
| --- | --- | -- | --- |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| -- | --- | --- | --- |
| IS-65-A20-S1 | IS-65-A20-03 | IS-65-C20-S1 | 15-65-C20-03 |
| $95 \mathrm{B066310}$ | $95 \mathrm{B066290}$ | $95 \mathrm{B066320}$ | 958066300 |
|  |  |  |  |
| 7,7+9V DC | 7,7+9V DC | 7,7+9V DC | 7,7+9V DC |
| < 10\% | < 10\% | < 10\% | < 10\% |
| < $10 \%$ | < 10\% | < 10\% | < 10\% |
| < 3 mA (metal absent) | < 3 mA (metal absent) | < 3 mA (metal absent) | $<3 \mathrm{~mA}$ (metal absent) |
| < 1 mA (metal present) | < 1 mA (metal present) | < 1 mA (metal present) | < 1 mA (metal present) |
| -- | --- | --- | --- |
| --- | --- | --- | --- |
| Yellow | Yellow | Yellow | Yellow |
| 2000 Hz | 2000 Hz | 2000 Hz | 2000 Hz |
| --- | --- | --- | --- |
| < 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 |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 . . .+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | -- | 2 m |
| --- | $2 \times 0,25 \mathrm{~mm}^{2}$ | --- | $2 \times 0,25 \mathrm{~mm}^{2}$ |
| Stainless-Steel | Stainless-Steel | Stainless-Steel | Stainless-Steel |
| --- | 80 g | --- | 80 g |
| 40 g | --- | 40 g | --- |

NAMUR M8




| NAMUR |  |  |
| :---: | :---: | :---: |
| NON FLUSH |  |  |
| M8 conn | M12 conn | cable |
| 2 mm | 2 mm | 2 mm |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | -- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | --- |
| --- | --- | -- |
| --- | --- | --- |
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| --- | --- | --- |
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| --- | --- | -- |
| --- | --- | --- |
| --- | --- | -- |
| --- | --- | -- |
| --- | --- | -- |
| --- | --- | --- |
| --- | --- | -- |
| --- | --- | --- |
| --- | --- | --- |
| IS-08-C20-S1 | 1S-08-C20-S2 | 1S-08-C20-03 |
| $95 \mathrm{B066790}$ | $95 \mathrm{B066770}$ | $95 \mathrm{B066750}$ |
|  |  |  |
| 7,7+9V DC | 7,7+9V DC | 7,7+9V DC |
| < 10\% | < $10 \%$ | < 10\% |
| < $10 \%$ | < $10 \%$ | < $10 \%$ |
| $<3 \mathrm{~mA}$ (metal absent) | $<3 \mathrm{~mA}$ (metal absent) | $<3 \mathrm{~mA}$ (metal absent) |
| < 1 mA (metal present) | < 1 mA (metal present) | < 1 mA (metal present) |
| --- | --- | - |
| --- | --- | --- |
| Yellow | Yellow | Yellow |
| 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 |
| $\left(-25 . . .+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 |
| --- | --- | 2 m |
| --- | --- | $2 \times 0,25 \mathrm{~mm}^{2}$ |
| Stainless-Steel | Stainless-Steel | Stainless-Steel |
|  |  | 80 g |
| 35g | 55g | --- |




|  |  |  |  |  |  | UR |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
|  |  |  |  | M12 conn | cable | M12 conn | cable |
| NOMINAL SWITC | NG DIStanc |  |  | 5 mm | 5 mm | 8 mm | 8 mm |
| 10-30 Vdc | PNP/NPN | 4 wires |  | --- | --- | --- | --- |
| fo-3ovac |  | 4wirs | order No. | --- | --- | --- | --- |
|  | PNP |  |  | --- | --- | --- | --- |
| 10-30 Vdc | NO | 3 wires | order No. | --- | --- | --- | --- |
| 10-30 Vdc | PNP | 3 wires |  | --- | --- | --- | --- |
| $10-30 \mathrm{Vdc}$ | NC | 3 wires | order No. | --- | --- | --- | --- |
|  |  |  |  | --- | --- | --- | --- |
| 10-30 Vdc | NO | 3 wires | order No. | --- | --- | --- | --- |
|  | NPN |  |  | --- | --- | --- | --- |
| $10-30 \mathrm{Vdc}$ | NC | 3 wires | order No. | --- | --- | --- | --- |
| 10-30 Vdc | PNP | 3 wires |  | --- | --- | --- | --- |
| 10-30 Vdc | NO-NC | 3 wires | order No. | --- | --- | --- | --- |
| 10-30 Vdc | NPN | 3 wires |  | --- | --- | --- | --- |
| $10-30 \mathrm{Vdc}$ |  | 3 wires | order No. | --- | --- | --- | --- |
| 10-30 Vdc | NO-NC | 2 wires |  | --- | --- | --- | --- |
| 10-30 Vac | NO-NC | 2 wires | order No. | --- | --- | --- | --- |
| 20-250 Vac/Vdc | NO | 2 wires |  | --- | --- | --- | --- |
| 20-250 Vac/Vac | NO | 2 wires | order No. | --- | --- | --- | --- |
|  |  |  |  | --- | --- | --- | --- |
| $20-250 \mathrm{Vac} / \mathrm{Vac}$ | NC | 2 wires | order No. | --- | --- | --- | --- |
| 20-250 Vac/Vdc | NO | 2/3wires |  | --- | --- | --- | --- |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2/3wires | order No. | --- | --- | --- | --- |
|  |  |  |  | --- | --- | --- | --- |
| Analog 0-20mA | - | 3 wires | order No. | --- | --- | -- | - |
|  |  |  |  | 1S-18-A20-52 | 15-18-A20-03 | 15-18-C20-S2 | 15-18-C20-03 |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. | $95 \mathrm{B064380}$ | $95 \mathrm{B064360}$ | 95B064390 | 958064370 |
|  |  |  |  |  |  |  |  |
| Nominal Voltage |  |  |  | $7,7+9 \vee \mathrm{DC}$ | 7,7+9V DC | $7,7+9 \vee \mathrm{DC}$ | 7,7+9V DC |
| Residual Ripple |  |  |  | < 10\% | < 10\% | < 10\% | < 10\% |
| Hysteresis |  |  |  | < 10\% | < $10 \%$ | < 10\% | < 10\% |
| Max. Output Curr |  |  |  | < 3 mA (metal absent) | < 3 mA (metal absent) | $<3 \mathrm{~mA}$ (metal absent) | $<3 \mathrm{~mA}$ (metal absent) |
| Min. Output Curr |  |  |  | $<1 \mathrm{~mA}$ (metal present) | < 1 mA (metal present) | < 1 mA (metal present) | < 1 mA (metal present) |
| Residual Current |  |  |  | --- | --- | --- | --- |
| Voltage Drop |  |  |  | --- | --- | --- | --- |
| Operation Led |  |  |  | Yellow | Yellow | Yellow | Yellow |
| Switching Freque |  |  |  | 1000 Hz | 1000 Hz | 1000 Hz | 1000 Hz |
| Start Up Delay |  |  |  | --- | --- | --- | --- |
| Repeability |  |  |  | < 3\% | < 3\% | < 3\% | < 3\% |
| Short Circuit Prot | tion |  |  | Present (self-resetting) | Present (self-resetting) | Present (self-resetting) | Present (self-resetting) |
| Electric Protectio |  |  |  | Against polarity reversal inductive loads | Against polarity reversal inductive loads | Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| Temperature Limi |  |  |  | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| Protection Degree |  |  |  | IP67 | IP67 | IP67 | IP67 |
| Cable Length |  |  |  | --- | 2 m | --- | 2 m |
| Cable Section |  |  |  | --- | $2 \times 0,25 \mathrm{~mm}^{2}$ | --- | $2 \times 0,25 \mathrm{~mm}^{2}$ |
| Housing Material |  |  |  | Stainless-Steel | Stainless-Steel | Stainless-Steel | Stainless-Steel |
| Weight - Cable Ou |  |  |  | --- | 145g | --- | 145g |
| Weight - M12 Con | ector Output |  |  | 95g | --- | 95 g | --- |



| NOMINAL SWITCHING DISTANCE |  |  |  |
| :--- | :--- | :--- | :--- |
| $10-30 \mathrm{Vdc}$ | PNP/NPN <br> NO-NC | 4 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | PNP <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NPN <br> NO-NC | 3 wires | order No. |
| $10-30 \mathrm{Vdc}$ | NO-NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NC | 2 wires | order No. |
| $20-250 \mathrm{Vac} / \mathrm{Vdc}$ | NO | $2 / 3$ wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |


| Nominal Voltage |
| :--- |
| Residual Ripple |
| Hysteresis |
| Max. Output Current |
| Min. Output Current |
| Residual Current |
| Voltage Drop |
| Operation Led |
| Switching Frequency |
| Start Up Delay |
| Repeability |
| Short Circuit Protection |
| Electric Protection |
| Temperature Limit |
| Protection Degree |
| Cable Length |
| Cable Section |
| Housing Material |
| Weight - Cable Output |
| Weight - M12 Connector Output |


| 7,7+9 V DC | 7,7+9 V DC | 7,7+9V DC | 7,7+9V DC |
| :---: | :---: | :---: | :---: |
| < 10\% | < 10\% | < 10\% | < 10\% |
| < 10\% | < 10\% | < 10\% | < 10\% |
| < 3 mA (metal absent) | < 3 mA (metal absent) | < 3 mA (metal absent) | < 3 mA (metal absent) |
| < 1 mA (metal present) | < 1 mA (metal present) | < 1 mA (metal present) | < 1 mA (metal present) |
| --- | --- | --- | --- |
| --- | --- | --- | --- |
| Yellow | Yellow | Yellow | Yellow |
| 500 Hz | 500 Hz | 500 Hz | 500 Hz |
| --- | --- | --- | --- |
| < 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 |
| $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ | $\left(-25 \ldots+60^{\circ} \mathrm{C}\right)$ |
| IP67 | IP67 | IP67 | IP67 |
| --- | 2 m | --- | 2 m |
| --- | $2 \times 0,25 \mathrm{~mm}^{2}$ | --- | $2 \times 0,25 \mathrm{~mm}^{2}$ |
| Stainless-Steel | Stainless-Steel | Stainless-Steel | Stainless-Steel |
| --- | 210 g | --- | 210 g |
| 170 g | --- | 170 g | --- |

## SOUARE

PBT (resin) or Nickel-plated Brass housing
Operating distance $1.5 \ldots 15 \mathrm{~mm}$
$40 \times 40 \mathrm{~mm}$ or $8 \times 8 \mathrm{~mm}$ dimension
Cable, M8 connector or Terminal Block
2 or 3 wires
PNP, PNP/NPN, NO, NC, NO/NC
IP67

## 

"M12/18/30 모델은 Diversey \& ECOLAB 테스트(세제에 대한 부식)를 거친 제품입니다"

## C

M12/18/30 FLUSH 모델은 ATEX 인증을 받은 제품입니다


## SOUJARE $40 \times 40$



|  | $4.0 \times 4.0$ |
| :---: | :---: | :---: |
| FLUSH NON FLUSH |  |


| 10-30 Vdc | PNP/NPN NO-NC | 4 wires | order No. |
| :---: | :---: | :---: | :---: |
| 10-30 Vdc | $\begin{aligned} & \text { PNP } \\ & \text { NO } \end{aligned}$ | 3 wires | order No. |
| 10-30 Vdc | $\begin{array}{\|l\|l} \hline \text { PNP } \\ \text { NC } \end{array}$ | 3 wires | order No. |
| 10-30 Vdc | $\begin{aligned} & \text { NPN } \\ & \text { NO } \end{aligned}$ | 3 wires | order No. |
| 10-30 Vdc | $\begin{aligned} & \text { NPN } \\ & \text { NC } \end{aligned}$ | 3 wires | order No. |
| 10-30 Vdc | $\begin{aligned} & \text { PNP } \\ & \text { NO-NC } \end{aligned}$ | 3 wires | order No. |
| 10-30 Vdc | $\begin{aligned} & \text { NPN } \\ & \text { NO-NC } \end{aligned}$ | 3 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/Vdc | NO | 2/3wires | order No. |
| Analog 0-20mA | - | 3 wires | order No. |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. |



| Nominal Voltage | 10-30 Vdc | 10-30 Vdc |
| :---: | :---: | :---: |
| Residual Ripple | < 10\% | < 10\% |
| Hysteresis | < 15\% (Sr) | < $15 \%$ (Sr) |
| Max. Output Current | 200 mA | 200 mA |
| Min. Output Current | --- | --- |
| Residual Current | < $0,01 \mathrm{~mA}$ | < 0,01 mA |
| Voltage Drop | < 1,5V | < 1,5V |
| Operation Led | YES | YES |
| Switching Frequency | 100 Hz | 100 Hz |
| Start Up Delay | --- | --- |
| Repeability | < 1.0\% (Sr) | < 1.0\% (Sr) |
| Short Circuit Protection | Present (self-resetting) | Present (self-resetting) |
| Electric Protection | Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| Temperature Limit | (-25 ...+75C) | $\left(-25 \ldots+75^{\circ} \mathrm{C}\right)$ |
| Protection Degree | IP67 | IP67 |
| Cable Length | --- | --- |
| Cable Section | --- | --- |
| Housing Material | PBT ( RESIN) | PBT ( RESIN) |
| Weight - Cable Output | --- | --- |
| Weight - M12 Connector Output | 262g | 262g |


|  |  |  |
| :---: | :---: | :---: |
| 40 $4.40 \mathrm{AC/VDC}$ |  |  |
| FLUSH |  | NON FLUSH |
| Terminal Block 15 mm |  | Terminal Block 30 mm |
| --- |  | --- |
| --- |  | -- |
| --- |  | --- |
| --- |  | --- |
| --- |  | --- |
| --- |  | --- |
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| --- |  | -- |
| --- |  | --- |
| --- |  | --- |
| --- |  | --- |
| --- |  | --- |
| S-40-W7-S3 |  | 15-40-Y7-53 |
| 958065250 |  | 95B065290 |
| IS-40-W8-53 |  | 15-40-Y8-53 |
| 95B065260 |  | $95 \mathrm{B065300}$ |
| --- |  | -- |
| --- |  | --- |
| --- |  | -- |
| --- |  | --- |
| --- |  | --- |
| --- |  | --- |
|  |  |  |
| 20-250 VAC/Vdc, $50-60 \mathrm{~Hz}$ |  | 20-250 VAC/Vdc, $50-60 \mathrm{~Hz}$ |
| < 10\% |  | < 10\% |
| < 15\% (Sr) |  | < 15\% (Sr) |
| 200 mA |  | 200 mA |
| --- |  | --- |
| $<2,5 \mathrm{~mA}$ |  | < $2,5 \mathrm{~mA}$ |
| <10Vac; < 8Vdc |  | <10Vac; < 8 Vdc |
| YES |  | YES |
| $25 \mathrm{~Hz} \mathrm{AC;} 40 \mathrm{~Hz} \mathrm{DC}$ |  | $25 \mathrm{~Hz} \mathrm{AC;} 40 \mathrm{~Hz} \mathrm{DC}$ |
| --- |  | --- |
| < 1.0\% ( Sr ) |  | < 1.0\% (Sr) |
| Present (self-resetting) |  | Present (self-resetting) |
| Against polarity reversal inductive loads |  | Against polarity reversal inductive loads |
| $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |  | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ |
| IP67 |  | IP67 |
| --- |  | --- |
| --- |  | --- |
| PBT ( RESIN) |  | PBT ( RESIN) |
| --- |  | --- |
| 262 g |  | 262g |

## SOUJARF $40 \times 4.0$



SOUJARE 8X8


|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  | M8 conn | cable |
| NOMINAL SWITC | NG DISTANC |  |  | 1,5mm | 1,5mm |
| 10-30 Vdc | PNP/NPN | 4 wires |  | --- | -- |
| -30-30Vde |  | 4 wires | order No. | --- | --- |
| 10-30 Vdc | PNP | 3 wires |  | IS-88-Q1-S1 | IS-88-Q1-03 |
| 10-30 Vac | NO | 3 wires | order No . | $95 \mathrm{B060840}$ | $95 \mathrm{B060830}$ |
| 10-30 Vdc | PNP | 3 wires |  | --- | --- |
| 10-30 Vac |  | 3 wires | order No. | --- | --- |
|  | NPN |  |  | --- | --- |
| 10-30 Vdc | NO | 3 wires | order No. | --- | --- |
|  | NPN |  |  | --- | --- |
| 10-30 Vdc | NC | 3 wires | order No. | --- | --- |
| 10-30 Vdc | PNP | 3 wires |  | --- | --- |
| 10-30 Vdc | NO-NC | 3 wires | order No. | --- | --- |
| 10-30 Vdc | NPN | 3 wires |  | --- | --- |
| 10-30 Vac |  | 3 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/Vdc | NO | 2/3wires |  | --- | --- |
| 20-250 Vac/Vac | No | 2/3wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| Analog 0-20mA | - | 3 wires | order No. | --- | --- |
|  |  |  |  | --- | --- |
| $5+24 \mathrm{Vdc}$ | NAMUR | 2 wires | order No. | --- | --- |
|  |  |  |  |  |  |
| Nominal Voltage |  |  |  | 10-30 Vdc | 10-30 Vdc |
| Residual Ripple |  |  |  | < 10\% | < 10\% |
| Hysteresis |  |  |  | < $10 \%$ (Sr) | < $10 \%$ (Sr) |
| Max. Output Cur |  |  |  | 200 mA | 200 mA |
| Min. Output Cur |  |  |  | --- | --- |
| Residual Curren |  |  |  | --- | --- |
| Voltage Drop |  |  |  | < 1,2V | < 1,2V |
| Operation Led |  |  |  | Yellow | Yellow |
| Switching Frequ |  |  |  | 500 Hz | 500 Hz |
| Start Up Delay |  |  |  | 75 ms | 75 ms |
| Repeability |  |  |  | < 3\% | < 3\% |
| Short Circuit Pro | ction |  |  | Present (self-resetting) | Present (self-resetting) |
| Electric Protectio |  |  |  | Against polarity reversal inductive loads | Against polarity reversal inductive loads |
| Temperature Lim |  |  |  | $\left(-25 \ldots+70^{\circ} \mathrm{C}\right)$ | $\left(-25 . . .+70^{\circ} \mathrm{C}\right)$ |
| Protection Degre |  |  |  | IP67 | IP67 |
| Cable Length |  |  |  | --- | 2 m |
| Cable Section |  |  |  | --- | $3 \times 0,14 \mathrm{~mm}^{2}$ |
| Housing Materia |  |  |  | nickel-plated brass | nickel-plated brass |
| Weight - Cable 0 |  |  |  | --- | 80 g |
| Weight - M12 Co | ector Output |  |  | 40 g | --- |

## CABLES,CONNECTORS \& ACCESSORIFS

2,3,4 wires
M12, M8 connector
Axial or radial $90^{\circ}$
Shielded or unshielded
Double key
A.C. cable
$3,5,7,10,15,25 \mathrm{~m}$ cable

## 

"M12/18/30 모델은 Diversey \& ECOLAB 테스트(세제에 대한 부식)를 거친 제품입니다"

## C

M12/18/30 FLUSH 모델은 ATEX 인증을 받은 제품입니다

## CABLES, CONNECTORS \& ACCESSORIES

## CABIIES,CONNIGTIORS \& ACCESSORIES

2-3 POLES - AC CABLES

| CONNECTOR | TYPE | ORIENTATION | LENGTH | MATERIAL | CODING | ORDER No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M12 | "shielded AC sensors" | axial, double key | 2 m | PVC | CS-A1-21-R-03 | 95A252880 |
|  |  |  | 5 m |  | CS-A1-21-R-05 | 95A252890 |

## WIRING DIAGRAMS



Double key connector for inductive $A C$ sensors


## WIRING DIACRAMS



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.

## CONNECTION <br> WITH CONNECTOR M12



3

| CONTACIS CONFIGURATION |  |  |  |  |  |
| :--- | :--- | :---: | :--- | :--- | :---: |
|  | Contacts numbers |  |  |  |  |
| Available | 1 | 2 | 3 | 4 |  |
| NO | + |  | - |  |  |
| NC | - |  | + |  |  |

## WIRING DIAGRAMS



## CONNECTION

WITH CONNECTOR M12


| CONTACIS CONFIGURATION |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Available | Contacts numbers |  |  |  |
|  | 1 | 2 | 3 | 4 |
| NAMUR | + |  |  |  |

## CONNECTION

WITH CONNECTOR M8


|  | CONTACIS CONFIGURATION |  |  |
| :--- | :--- | :--- | :---: |
|  | Contacts numbers |  |  |
|  | 1 | 3 |  |

3 POLES

| CONNECTOR | TYPE | ORIENTATION | LENGTH | MATERIAL | coding | ORDER No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M12 | shielded | axial | 3 m | PVC | CS-A1-01-G-03 | 95A251290 |
|  |  |  | 5 m |  | CS-A1-01-G-05 | 95A251300 |
|  |  |  | 7 m |  | CS-A1-01-G-07 | 95A251320 |
|  |  |  | 10 m |  | CS-A1-01-G-10 | 95A251340 |
|  |  | radial $90^{\circ}$ | 3 m |  | CS-A2-01-G-03 | 95A251200 |
|  |  |  | 5 m |  | CS-A2-01-G-05 | 95A251210 |
|  |  |  | 7 m |  | CS-A2-01-G-07 | 95A251220 |
|  |  |  | 10 m |  | CS-A2-01-G-10 | 95A251230 |
|  |  | radial $90^{\circ}+$ LED | 5 m |  | CS-A2-11-G-05 | $95 A 251310$ |
|  |  |  | 10 m |  | CS-A2-11-G-10 | 95A251330 |
| M8 | shielded | axial | 3 m | PVC | CS-B1-01-G-03 | 95A251490 |
|  |  |  | 5 m |  | CS-B1-01-G-05 | 95A251510 |
|  |  |  | 2 m | PUR | CS-B1-01-R-02 | 95A251580 |
|  |  |  | 5 m |  | CS-B1-01-R-05 | 95A251600 |
|  |  | radial $90^{\circ}$ | 3 m | PVC | CS-B2-01-G-03 | 95A251500 |
|  |  |  | 5 m |  | CS-B2-01-G-05 | 95A251520 |
|  |  |  | 2 m | PUR | CS-B2-01-R-02 | 95A251590 |
|  |  |  | 5 m |  | CS-B2-01-R-05 | 95 A 251610 |

## CONNECTION <br> WITH CONNECTOR M12



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

## WIRING DIACRAMS



## CONNECTION

WITH CONNECTOR M8


View of triple male connector

| CONTACIS CONFIGURATION |  |  |  |
| :--- | :--- | :--- | :---: |
| Available | Contacts numbers |  |  |
| (NO or NC) | + | 3 |  |

CARIEFSCONNEGTORS \& ACCESSORIES
4 POLES

| CONNECTOR | TYPE | ORIENTATION | LENGTH | MATERIAL | CODING | ORDER No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M12 | shielded | axial | 3 m | PVC | CS-A1-02-G-03 | 95A251380 |
|  |  |  | 5 m |  | CS-A1-02-G-05 | 95A251270 |
|  |  |  | 7 m |  | CS-A1-02-G-07 | 95A251280 |
|  |  |  | 10 m |  | CS-A1-02-G-10 | 95A251390 |
|  |  |  | 2 m | PUR | CS-A1-02-R-02 | 95A251540 |
|  |  |  | 5 m |  | CS-A1-02-R-05 | 95A251560 |
|  |  | radial $90^{\circ}$ | 3 m | PVC | CS-A2-02-G-03 | 95A251360 |
|  |  |  | 5 m |  | CS-A2-02-G-05 | 95A251240 |
|  |  |  | 7 m |  | CS-A2-02-G-07 | 95A251245 |
|  |  |  | 10 m |  | CS-A2-02-G-10 | 95A251260 |
|  |  |  | 2 m | PUR | CS-A2-02-R-02 | 95A251550 |
|  |  |  | 5 m |  | CS-A2-02-R-05 | 95A251570 |
|  |  | radial $90^{\circ}+$ LED | 3 m | PVC | CS-A2-12-G-03 | 95A251400 |
|  |  |  | 5 m |  | CS-A2-12-G-05 | 95A251350 |
|  |  |  | 10 m |  | CS-A2-12-G-10 | 95A251370 |
|  | "unshielded UL2464" | axial | 3 m | PVC | CS-A1-02-U-03 | 95ASE1120 |
|  |  |  | 5 m |  | CS-A1-02-U-05 | 95ASE1130 |
|  |  |  | 10 m |  | CS-A1-02-U-10 | 95ASE1140 |
|  |  |  | 15 m |  | CS-A1-02-U-15 | 95ASE1150 |
|  |  |  | 25 m |  | CS-A1-02-U-25 | 95ASE1160 |
| M8 | shielded | axial | 3 m | PVC | CS-B1-02-G-03 | 95A251420 |
|  |  |  | 5 m |  | CS-B1-02-G-05 | 95A251430 |
|  |  |  | 7 m |  | CS-B1-02-G-07 | 95A251440 |
|  |  |  | 10 m |  | CS-B1-02-G-10 | 95A251480 |
|  |  |  | 2 m | PUR | CS-B1-02-R-02 | 95A251620 |
|  |  |  | 5 m |  | CS-B1-02-R-05 | 95A251640 |
|  |  | radial $90^{\circ}$ | 3 m | PVC | CS-B2-02-G-03 | 95A251450 |
|  |  |  | 5 m |  | CS-B2-02-G-05 | 95A251460 |
|  |  |  | 7 m |  | CS-B2-02-G-07 | 95A251470 |
|  |  |  | 10 m |  | CS-B2-02-G-10 | 95A251530 |
|  |  |  | 2 m | PUR | CS-B2-02-R-02 | 95A251630 |
|  |  |  | 5 m |  | CS-B2-02-R-05 | 95A251650 |

## WIRINC DIACRAMS



Thanks to the output status which is not paired with the rest of the circuit, the sensors of this kind of availability give enormous advantages, such as the possibility of obtaining the four output configurations (NPN-NO, NPN-NC, PNPNO, PNP-NC, on the same model.

## CONNECTION

 WITH CONNECTOR M12

| CONTACIS CONFIGURATION |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Output | Contacts numbers |  |  |  |
|  | 1 | 2 | 3 | 4 |
| NPN NO | + | NO | - | - |
| NPN NC | - | NC | + | - |
| PNP NO | + | + | - | NO |
| PNP NC | - | + | + | NC |


| CONNECTOR | TYPE | ORIENTATION | LENGTH | MATERIAL | coding | ORDER No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M12 | connector | axial | FEMALE | PVC, gold-nickel-plated brass | CS-A1-02-B-NC | G5085002 |
|  |  | radial |  |  | CS-A2-02-B-NC | $G 5085003$ |



RADIAL M8


AXIAL M8


## CABIIFS, CONNEGTORS \& ACCESSORITG

ACCESSORIES SELECTION AND ORDER INFORMATION

| CONNECTOR | TYPE | MATERIAL | CODING | ORDER No. |
| :---: | :---: | :---: | :---: | :---: |
| M12 | fixing bracket | Stainless Steel | ST1218 | $95 A C C 3340$ |
| M18 | fixing bracket | Stainless Steel | ST1218 | $95 A C C 3340$ |
| M30 | fixing bracket | Stainless Steel | ST1830 | $95 A C C 3350$ |

ST1218


ST1830


CARIEFSCONNEGIORS \& ACCESSORIES
MODEL SELECTION AND ORDER INFORMATION

| M4, M5, M6,5 |  |  |  |
| :---: | :---: | :---: | :---: |
| SENSOR | Order No. | Category | Pag. |
| 1S-04-A1-03 | $95 \mathrm{B061011}$ | STAINLESS STEEL | 34 |
| 1S-04-A3-03 | $95 \mathrm{B061001}$ | STAINLESS STEEL | 34 |
| 1S-05-A1-03 | $95 \mathrm{B061041}$ | BASIC | 35 |
| IS-05-A1-S1 | $95 \mathrm{B061051}$ | BASIC | 35 |
| IS-05-A20-03 | $95 \mathrm{B065410}$ | NAMUR | 62 |
| 1S-05-A3-03 | $95 \mathrm{B061021}$ | BASIC | 35 |
| 1S-05-A3-51 | $95 \mathrm{B061031}$ | BASIC | 35 |
| 1S-05-A4-03 | 95B065420 | BASIC | 35 |
| 15-05-E3-03 | 95B065400 | BASIC | 35 |
| 1S-65-A1-03 | 95B064730 | BASIC | 10 |
| IS-65-A1-S1 | 958066050 | BASIC | 10 |
| IS-65-A20-03 | $95 \mathrm{B066290}$ | NAMUR | 63 |
| IS-65-A20-S1 | $95 \mathrm{B066310}$ | NAMUR | 63 |
| 1S-65-A2-03 | 95B064770 | BASIC | 10 |
| 1S-65-A2-S1 | 95B066090 | BASIC | 10 |
| 1S-65-A3-03 | 958064650 | BASIC | 10 |
| 1S-65-A3-51 | 95B064970 | BASIC | 10 |
| 1S-65-A4-03 | 95B064690 | BASIC | 10 |
| IS-65-A4-S1 | 958066010 | BASIC | 10 |
| IS-65-B1-03 | 95 B 064750 | BASIC | 11 |
| 1S-65-B1-S1 | 95B066070 | BASIC | 11 |
| IS-65-B2-03 | 95B064790 | BASIC | 11 |
| 1S-65-B2-S1 | $95 \mathrm{B066110}$ | BASIC | 11 |
| 1S-65-B3-03 | 958064670 | BASIC | 11 |
| IS-65-B3-S1 | 95B064990 | BASIC | 11 |
| 1S-65-B4-03 | 95B064710 | BASIC | 11 |
| 1S-65-B4-S1 | 95B066030 | BASIC | 11 |
| 1S-65-C1-03 | 95B064890 | BASIC | 10 |
| 1S-65-C1-S1 | $95 \mathrm{B066210}$ | BASIC | 10 |
| 15-65-C20-03 | 95B066300 | NAMUR | 63 |
| 15-65-C20-51 | 95B066320 | NAMUR | 63 |
| 1S-65-C2-03 | 95B064930 | BASIC | 10 |
| 1S-65-C2-51 | $95 \mathrm{B066250}$ | BASIC | 10 |
| 1S-65-C3-03 | $95 \mathrm{B064810}$ | BASIC | 10 |
| 15-65-C3-51 | $95 \mathrm{B066130}$ | BASIC | 10 |
| 1S-65-C4-03 | 95B064850 | BASIC | 10 |
| 15-65-C4-51 | 95B066170 | BASIC | 10 |
| IS-65-D1-03 | 95B064910 | BASIC | 11 |
| IS-65-D1-S1 | $95 \mathrm{B066230}$ | BASIC | 11 |
| IS-65-D2-03 | $95 \mathrm{B064950}$ | BASIC | 11 |
| IS-65-D2-S1 | $95 \mathrm{B066270}$ | BASIC | 11 |
| IS-65-D3-03 | 95B064830 | BASIC | 11 |
| IS-65-D3-S1 | 95B066150 | BASIC | 11 |
| IS-65-D4-03 | $95 \mathrm{B064870}$ | BASIC | 11 |
| IS-65-D4-S1 | $95 \mathrm{B066190}$ | BASIC | 11 |
| IS-65-G1-03 | 95B064740 | BASIC | 12 |
| IS-65-G1-S1 | $95 \mathrm{B066060}$ | BASIC | 12 |
| IS-65-G2-03 | 95B064780 | BASIC | 12 |
| IS-65-G2-S1 | 95B066100 | BASIC | 12 |
| 1S-65-G3-03 | $95 \mathrm{B064660}$ | BASIC | 12 |
| IS-65-G3-S1 | 95B064980 | BASIC | 12 |
| IS-65-G4-03 | 95B064700 | BASIC | 12 |
| 15-65-G4-S1 | 95B066020 | BASIC | 12 |
| IS-65-H1-03 | 95B064900 | BASIC | 13 |
| IS-65-H1-S1 | 95B066220 | BASIC | 13 |
| IS-65-H2-03 | 95B064940 | BASIC | 13 |
| IS-65-H2-S1 | 95B066260 | BASIC | 13 |
| IS-65-H3-03 | 95B064820 | BASIC | 13 |
| IS-65-H3-S1 | $95 \mathrm{B066140}$ | BASIC | 13 |


| IS-65-H4-03 | $95 B 064860$ | BASIC | 13 |
| :--- | :--- | :--- | :--- |
| IS-65-H4-S1 | $95 B 066180$ | BASIC | 13 |
| IS-65-M1-03 | $95 B 064760$ | STAINLESS STEEL | 36 |
| IS-65-M1-S1 | $95 B 066080$ | STAINLESS STEEL | 36 |
| IS-65-M2-03 | $95 B 064800$ | STAINLESS STEEL | 36 |
| IS-65-M2-S1 | $95 B 066120$ | STAINLESS STEEL | 36 |
| IS-65-M3-03 | $95 B 064680$ | STAINLESS STEEL | 36 |
| IS-65-M3-S1 | $95 B 066000$ | STAINLESS STEEL | 36 |
| IS-65-M4-03 | $95 B 064720$ | STAINLESS STEEL | 36 |
| IS-65-M4-S1 | $95 B 066040$ | STAINLESS STEEL | 36 |
| IS-65-N1-03 | $95 B 064920$ | STAINLESS STEEL | 37 |
| IS-65-N1-S1 | $95 B 066240$ | STAINLESS STEEL | 37 |
| IS-65-N2-03 | $95 B 064960$ | STAINLESS STEEL | 37 |
| IS-65-N2-S1 | $95 B 066280$ | STAINLESS STEEL | 37 |
| IS-65-N3-03 | $95 B 064840$ | STAINLESS STEEL | 37 |
| IS-65-N3-S1 | $95 B 066160$ | STAINLESS STEEL | 37 |
| IS-65-N4-03 | $95 B 064880$ | STAINLESS STEEL | 37 |
| IS-65-N4-S1 | $95 B 066200$ | STAINLESS STEEL | 37 |


| M8 |  |  |  |
| :---: | :---: | :---: | :---: |
| SENSOR | Order No. | Category | Pag. |
| IS-08-A1-03 | $95 \mathrm{B061121}$ | BASIC | 14 |
| 1S-08-A1-S1 | $95 \mathrm{B061141}$ | BASIC | 14 |
| 1S-08-A1-S2 | $95 \mathrm{B061131}$ | BASIC | 14 |
| IS-08-A20-03 | $95 \mathrm{B066740}$ | NAMUR | 64 |
| IS-08-A20-03 | $95 \mathrm{B066760}$ | NAMUR | 64 |
| IS-08-A20-51 | $95 \mathrm{B066780}$ | NAMUR | 64 |
| 15-08-A2-03 | $95 \mathrm{B061151}$ | BASIC | 14 |
| 1S-08-A2-S1 | 958061171 | BASIC | 14 |
| IS-08-A2-S2 | $95 \mathrm{B061161}$ | BASIC | 14 |
| 1S-08-A3-03 | $95 \mathrm{B061061}$ | BASIC | 14 |
| 1S-08-A3-S1 | $95 \mathrm{B061081}$ | BASIC | 14 |
| 1S-08-A3-S2 | $95 \mathrm{B061071}$ | BASIC | 14 |
| 1S-08-A4-03 | $95 \mathrm{B061091}$ | BASIC | 14 |
| 1S-08-A4-S1 | $95 \mathrm{B061111}$ | BASIC | 14 |
| 15-08-A4-S2 | $95 \mathrm{B061101}$ | BASIC | 14 |
| 1S-08-B1-03 | $95 \mathrm{B061921}$ | BASIC | 16 |
| 1S-08-B1-S1 | 95 B 066860 | BASIC | 16 |
| 1S-08-B1-S2 | $95 \mathrm{B066590}$ | BASIC | 16 |
| 1S-08-B2-03 | $95 \mathrm{B061951}$ | BASIC | 16 |
| IS-08-B2-S1 | $95 \mathrm{B066890}$ | BASIC | 16 |
| 1S-08-B2-S2 | 95 B 066620 | BASIC | 16 |
| 15-08-B3-03 | $95 \mathrm{B061861}$ | BASIC | 16 |
| 15-08-B3-51 | $95 \mathrm{B066810}$ | BASIC | 16 |
| 1S-08-B3-52 | $95 \mathrm{B066530}$ | BASIC | 16 |
| 1S-08-B4-03 | $95 \mathrm{B061891}$ | BASIC | 16 |
| 1S-08-B4-S1 | $95 \mathrm{B066830}$ | BASIC | 16 |
| 1S-08-B4-S2 | $95 \mathrm{B066560}$ | BASIC | 16 |
| 15-08-C1-03 | $95 \mathrm{B061521}$ | BASIC | 15 |
| 1S-08-C1-51 | $95 \mathrm{B061541}$ | BASIC | 15 |
| 1S-08-C1-S2 | $95 \mathrm{B061531}$ | BASIC | 15 |
| 15-08-C20-03 | $95 \mathrm{B066750}$ | NAMUR | 65 |
| IS-08-C20-S1 | $95 \mathrm{B066790}$ | NAMUR | 65 |
| $15-08-\mathrm{C} 20-52$ | 958066770 | NAMUR | 65 |
| 1S-08-C2-03 | $95 \mathrm{B061551}$ | BASIC | 15 |
| 1S-08-C2-51 | $95 \mathrm{B061571}$ | BASIC | 15 |
| 15-08-C2-52 | 958061561 | BASIC | 15 |
| 1S-08-C3-03 | $95 \mathrm{B066410}$ | BASIC | 15 |
| 15-08-C3-51 | 958061481 | BASIC | 15 |
| 15-08-C3-52 | 958061471 | BASIC | 15 |
| 15-08-C4-03 | 958066450 | BASIC | 15 |


| 15-08-C4-51 | $95 \mathrm{B061511}$ | BASIC | 15 |
| :---: | :---: | :---: | :---: |
| 15-08-C4-52 | $95 \mathrm{B061501}$ | BASIC | 15 |
| IS-08-D1-03 | $95 \mathrm{B062321}$ | BASIC | 17 |
| IS-08-D1-S1 | $95 \mathrm{B066970}$ | BASIC | 17 |
| 1S-08-D1-S2 | $95 \mathrm{B066700}$ | BASIC | 17 |
| 1S-08-D2-03 | $95 \mathrm{B062351}$ | BASIC | 17 |
| 1S-08-D2-51 | 95 B 067000 | BASIC | 17 |
| 15-08-D2-52 | $95 \mathrm{B066720}$ | BASIC | 17 |
| 1S-08-D3-03 | $95 \mathrm{B066430}$ | BASIC | 17 |
| 1S-08-D3-51 | $95 \mathrm{B066920}$ | BASIC | 17 |
| 15-08-D3-52 | $95 \mathrm{B066650}$ | BASIC | 17 |
| 1S-08-D4-03 | $95 \mathrm{B062291}$ | BASIC | 17 |
| 15-08-D4-51 | $95 \mathrm{B066940}$ | BASIC | 17 |
| 15-08-D4-52 | $95 \mathrm{B066670}$ | BASIC | 17 |
| IS-08-G1-03 | $95 \mathrm{B066370}$ | BASIC | 18 |
| IS-08-G1-S1 | $95 \mathrm{B066850}$ | BASIC | 18 |
| IS-08-G1-S2 | $95 \mathrm{B066580}$ | BASIC | 18 |
| IS-08-G2-03 | $95 \mathrm{B066390}$ | BASIC | 18 |
| IS-08-G2-S1 | $95 \mathrm{B066880}$ | BASIC | 18 |
| IS-08-G2-S2 | $95 \mathrm{B066610}$ | BASIC | 18 |
| 1S-08-G3-03 | $95 \mathrm{B066330}$ | BASIC | 18 |
| 15-08-G3-51 | $95 \mathrm{B066800}$ | BASIC | 18 |
| 15-08-G3-52 | $95 \mathrm{B066520}$ | BASIC | 18 |
| 15-08-G4-03 | $95 \mathrm{B066350}$ | BASIC | 18 |
| 1S-08-G4-51 | $95 \mathrm{B063131}$ | BASIC | 18 |
| 15-08-G4-52 | $95 \mathrm{B066550}$ | BASIC | 18 |
| IS-08-H1-03 | $95 \mathrm{B066480}$ | BASIC | 19 |
| 15-08-H1-51 | $95 \mathrm{B066960}$ | BASIC | 19 |
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| IS-30-H9-03 | 95B064560 | BASIC | 30 |
| IS-30-H9-S2 | 95B064600 | BASIC | 30 |
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| 1S-30-03-52 | 95B060180 | STAINLESS STEEL | 45 |
| 15-30-04-52 | 95B060190 | STAINLESS STEEL | 45 |
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| IS-30-P2-S2 | $95 \mathrm{B060210}$ | STAINLESS STEEL | 45 |
| $15-30-\mathrm{P} 3-52$ | 95B060220 | STAINLESS STEEL | 45 |
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