

# XS530B1DAL08M12

inductive sensor XS5 M30 - L62mm - brass -  
Sn10mm - 12..48VDC - M12 - 0.8 m



## Main

|                                    |                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Range of product                   | OsiSense XS                                                                                                     |
| Series name                        | General purpose                                                                                                 |
| Sensor type                        | Inductive proximity sensor                                                                                      |
| Device application                 | -                                                                                                               |
| Sensor name                        | XS5                                                                                                             |
| Sensor design                      | Cylindrical M30                                                                                                 |
| Size                               | 54 mm                                                                                                           |
| Body type                          | Fixed                                                                                                           |
| Detector flush mounting acceptance | Flush mountable                                                                                                 |
| Material                           | Metal                                                                                                           |
| Type of output signal              | Discrete                                                                                                        |
| Wiring technique                   | 2-wire                                                                                                          |
| [Sn] nominal sensing distance      | 10 mm                                                                                                           |
| Discrete output function           | 1 NO                                                                                                            |
| Output circuit type                | DC                                                                                                              |
| Electrical connection              | 4 pins M12 remote male connector, pin assignment : 3-4                                                          |
| Cable length                       | 0.8 m                                                                                                           |
| [Us] rated supply voltage          | 12...48 V DC                                                                                                    |
| Switching capacity in mA           | 1.5...100 mA DC with overload and short-circuit protection                                                      |
| IP degree of protection            | IP68 double insulation conforming to IEC 60529<br>IP65 conforming to IEC 60529<br>IP69K conforming to DIN 40050 |

## Complementary

|                          |                              |
|--------------------------|------------------------------|
| Thread type              | M30 x 1.5                    |
| Detection face           | Frontal                      |
| Front material           | PPS                          |
| Enclosure material       | Nickel plated brass          |
| Operating zone           | 0...8 mm                     |
| Differential travel      | 1...15% of Sr                |
| Cable composition        | 2 x 0.34 mm <sup>2</sup>     |
| Wire insulation material | PvR                          |
| Status LED               | Output state: 1 LED (yellow) |
| Supply voltage limits    | 10...58 V DC                 |
| Maximum residual current | 0.5 mA open state            |
| Switching frequency      | <= 2000 Hz                   |
| Maximum voltage drop     | <4 V (closed)                |
| Maximum delay first up   | 10 ms                        |
| Maximum delay response   | 0.3 ms                       |
| Maximum delay recovery   | 0.3 ms                       |
| Marking                  | CE                           |
| Threaded length          | 52 mm                        |
| Height                   | 30 mm                        |

|            |         |
|------------|---------|
| Length     | 62 mm   |
| Net weight | 0.22 kg |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | UL<br>CSA<br>CCC                                                        |
| Ambient air temperature for operation | -25...70 °C                                                             |
| Ambient air temperature for storage   | -40...85 °C                                                             |
| Vibration resistance                  | 25 gn amplitude = +/- 2 mm (f = 10...55 Hz) conforming to IEC 60068-2-6 |
| Shock resistance                      | 50 gn for 11 ms conforming to IEC 60068-2-27                            |

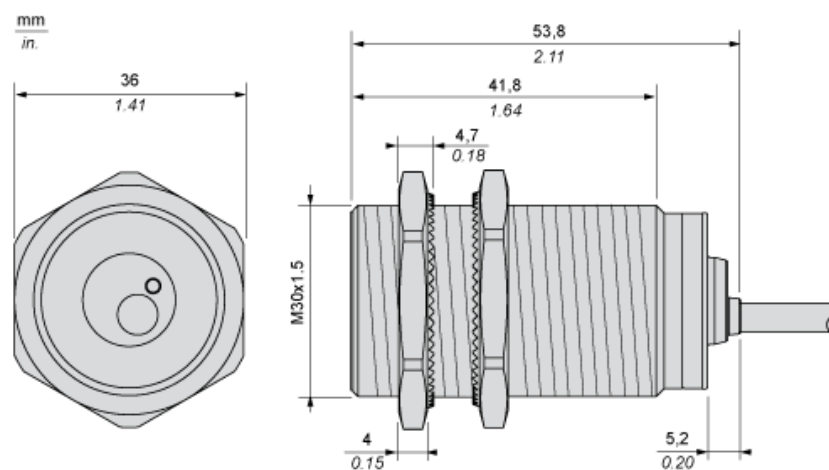
## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.173 kg |
| Package 1 Height | 0.420 dm |
| Package 1 width  | 0.960 dm |
| Package 1 Length | 1.320 dm |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

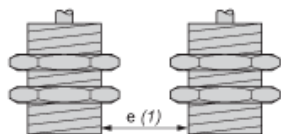


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### Minimum Mounting Distances

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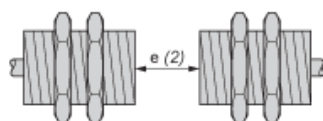
Side by side



e (1) 20 mm/0.79 in

≥

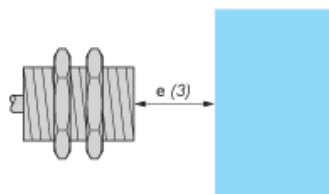
Face to face



e (2) 120 mm/4.72 in

≥

Facing a metal object



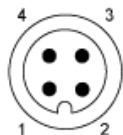
e (3) 30 mm/1.18 in.

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## Wiring Schemes

### 2-Wire Non-polarised

M12 connector



NO output

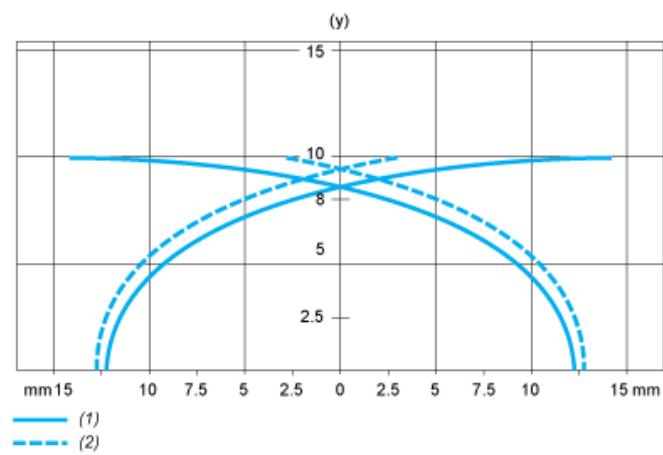


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Performance Curves

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Standard Steel Target : 30x30x1 mm



- (1) Pick-up points  
(2) Drop-out points (object approaching from the side)  
(y) Sensing distance in mm