

# XS230AAPAM12

Inductive proximity sensors XS, inductive sensor XS2 M30, L70mm, PPS, Sn22mm, 12...48 VDC, M12



## Main

|                                    |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Range of product                   | Telemecanique Inductive proximity sensors XS                  |
| Series name                        | Application                                                   |
| Sensor type                        | Inductive proximity sensor                                    |
| Device application                 | Food and beverage                                             |
| Market segment                     | Pharmaceutical                                                |
| Sensor name                        | XS2                                                           |
| Sensor design                      | Cylindrical M30                                               |
| Size                               | 70 mm                                                         |
| Body type                          | Fixed                                                         |
| Detector flush mounting acceptance | Non flush mountable                                           |
| Material                           | Plastic                                                       |
| Type of output signal              | Discrete                                                      |
| Wiring technique                   | 3-wire                                                        |
| [Sn] nominal sensing distance      | 22 mm                                                         |
| Discrete output function           | 1 NO                                                          |
| Output circuit type                | DC                                                            |
| Discrete output type               | PNP                                                           |
| Electrical connection              | Male connector M12, 4 pins                                    |
| [Us] rated supply voltage          | 12...48 V DC with reverse polarity protection                 |
| Switching capacity in mA           | <= 200 mA with overload and short-circuit protection          |
| IP degree of protection            | IP67 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     | PPS                          |
| Sensing range          | > 15...40 mm                 |
| Operating zone         | 0...17.6 mm                  |
| Differential travel    | 1...15% of Sr                |
| Status LED             | Output state: 1 LED (yellow) |
| Supply voltage limits  | 10...58 V DC                 |
| Switching frequency    | <= 500 Hz                    |
| Maximum voltage drop   | <2 V (closed)                |
| Current consumption    | <= 10 mA no-load             |
| Maximum delay first up | 10 ms                        |
| Maximum delay response | 0.6 ms                       |
| Maximum delay recovery | 1.4 ms                       |
| Marking                | CE                           |
| Threaded length        | 52 mm                        |
| Length                 | 70 mm                        |
| Net weight             | 0.08 kg                      |

## Environment

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Product certifications                | CSA<br>CCC<br>UL                                                        |
| Ambient air temperature for operation | -25...85 °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

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Weight             | 86 g   |
| Package 1 Height             | 4.5 cm |
| Package 1 width              | 6.5 cm |
| Package 1 Length             | 9.5 cm |

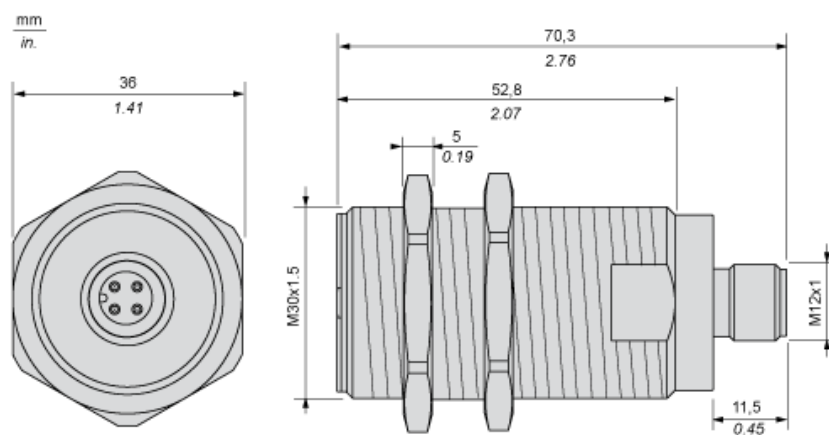
## Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                          |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                              |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                            |
| RoHS exemption information | <a href="#">Yes</a>                                                                            |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                  |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                        |

## Contractual warranty

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

## Dimensions



## Minimum Mounting Distances in mm

Side by side



e (1) 120 mm/4.72 in.

≥

Face to face



e (2) 264 mm/10.39 in.

≥

Facing a metal object



e (3) 66 mm/2.60 in.

≥

(4) Metal

(5) Object to be detected

## Wiring Schemes

M12 connector



PNP



- 1 : (+)
- 2 : Not connected
- 3 : (-)
- 4 : NO Output