XS4P18NB340L1

inductive sensor XS4 M18 - L36mm- PPS -Sn8mm - 12..24VDC - cable 5m



Main

Range of product	Telemecanique Inductive proximity sensors XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Sensor name	XS4
Sensor design	Cylindrical M18
Size	36 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	8 mm
Discrete output function	1 NC
Output circuit type	DC
Discrete output type	NPN
Electrical connection	Cable
Cable length	5 m
[Us] rated supply voltage	1224 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA DC with overload and short-circuit protection
IP degree of protection	IP68 double insulation conforming to IEC 60529

Detection face Frontal Front material PPS Enclosure material PPS Operating zone 06.4 mm Differential travel 115% of Sr Cable composition 3 x 0.34 mm² Wire insulation material PVC Status LED Output state: 1 LED (yellow) Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz Maximum voltage drop <2 V (closed) Current consumption <= 10 mA no-load Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Complementary	
Front material PPS Enclosure material PPS Operating zone 06.4 mm Differential travel 115% of Sr Cable composition 3 x 0.34 mm² Wire insulation material PVC Status LED Output state: 1 LED (yellow) Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz	Thread type	M18 x 1
Enclosure material PPS Operating zone 06.4 mm Differential travel 115% of Sr Cable composition 3 x 0.34 mm² Wire insulation material PVC Status LED Output state: 1 LED (yellow) Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz Maximum voltage drop <2 V (closed) Current consumption <= 10 mA no-load Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Detection face	Frontal
Operating zone 06.4 mm Differential travel 115% of Sr Cable composition 3 x 0.34 mm² Wire insulation material PVC Status LED Output state: 1 LED (yellow) Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz	Front material	PPS
Differential travel 115% of Sr Cable composition 3 x 0.34 mm² Wire insulation material PVC Status LED Output state: 1 LED (yellow) Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz	Enclosure material	PPS
Cable composition 3 x 0.34 mm² Wire insulation material PVC Status LED Output state: 1 LED (yellow) Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz Maximum voltage drop <2 V (closed) Current consumption <= 10 mA no-load Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Operating zone	06.4 mm
Wire insulation material PVC Status LED Output state: 1 LED (yellow) Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz Maximum voltage drop <2 V (closed) Current consumption <= 10 mA no-load Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Differential travel	115% of Sr
Status LED Output state: 1 LED (yellow) Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz Maximum voltage drop Current consumption Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 18 mm Length Output state: 1 LED (yellow) Output state: 1 LED (yellow) 1036 V DC <= 2000 Hz In36 V DC Switching frequency <= 2000 Hz In36 V DC Switching frequency == 2000 Hz In36 V DC I	Cable composition	3 x 0.34 mm²
Supply voltage limits 1036 V DC Switching frequency <= 2000 Hz Maximum voltage drop <2 V (closed) Current consumption <= 10 mA no-load Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Wire insulation material	PVC
Switching frequency <= 2000 Hz Maximum voltage drop <2 V (closed) Current consumption <= 10 mA no-load Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Status LED	Output state: 1 LED (yellow)
Maximum voltage drop <2 V (closed) Current consumption <= 10 mA no-load Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Supply voltage limits	1036 V DC
Current consumption <= 10 mA no-load Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Switching frequency	<= 2000 Hz
Maximum delay first up 10 ms Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Maximum voltage drop	<2 V (closed)
Maximum delay response 0.15 ms Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Current consumption	<= 10 mA no-load
Maximum delay recovery 0.35 ms Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Maximum delay first up	10 ms
Marking CE Threaded length 25 mm Height 18 mm Length 36 mm	Maximum delay response	0.15 ms
Threaded length 25 mm Height 18 mm Length 36 mm	Maximum delay recovery	0.35 ms
Height 18 mm Length 36 mm	Marking	CE
Length 36 mm	Threaded length	25 mm
· · · · · · · · · · · · · · · · · · ·	Height	18 mm
Net weight 0.21 kg	Length	36 mm
	Net weight	0.21 kg

Environment

Product certifications	UL[RETURN]CSA
Ambient air temperature for operation	-2570 °C
Ambient air temperature for storage	-4085 °C
Vibration resistance	25 gn amplitude = +/- 2 mm (f = 1055 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27

Packing Units

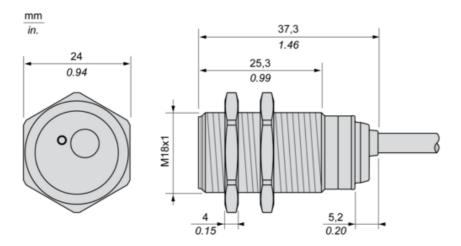
Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty	18 months



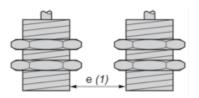
Dimensions



XS4P18NB340L1

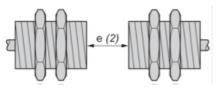
Minimum Mounting Distances

Side by side

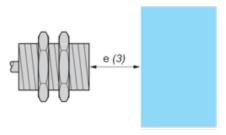


e (1) ≥ 32 mm/1.26 in.

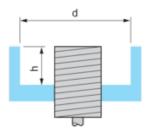
Face to face



e (2) ≥ 96 mm/3.78 in. Facing a metal object

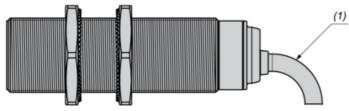


e (3) ≥ 24 mm/0.94 in. Mounted in a metal support



 $d \ge 56 \text{ mm/2.20 in.}$ h ≥ 16 mm/0.63 in.

Mounting

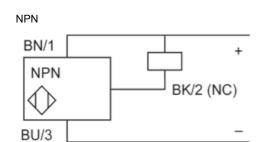


(1) Bending cable: 4 x external cable diameter

Product data sheet Connections and Schema

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Wiring Schemes

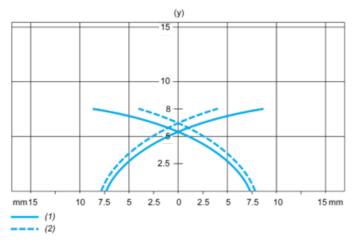


BU : Blue BN : Brown BK : Black

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Performance Curves

Standard Steel Target: 24x24x1 mm



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