



## Main

Range of product	OsiSense XS
Series name	General purpose
Sensor type	Inductive proximity sensor
Device application	Mobile equipment
Sensor name	XS4
Sensor design	Cylindrical M30
Size	41 mm
Body type	Fixed
Detector flush mounting acceptance	Non flush mountable
Material	Plastic
Type of output signal	Discrete
Wiring technique	4-wire
[Sn] nominal sensing distance	15 mm
Discrete output function	1 NO + 1 NC
Output circuit type	DC
Discrete output type	PNP
Electrical connection	Cable
Cable length	2 m
[Us] rated supply voltage	12...24 V DC with reverse polarity protection
Switching capacity in mA	<= 200 mA with overload and short-circuit protection
IP degree of protection	IP68 double insulation conforming to IEC 60529

## Complementary

Safety level	SIL 2 conforming to EN/IEC 61508 PL = d conforming to EN/ISO 13849-1 SILCL 2 conforming to IEC 62061
Safety reliability data	MTTFd = 1810 years PFHd = 62.9E-9 1/h SFF = 92 % DC = 75 % with appropriate safety controller
Service life	20 yr
Thread type	M30 x 1.5
Detection face	Frontal
Front material	PPS
Enclosure material	PPS
Operating zone	0...12 mm
Differential travel	1...15% of Sr
Cable composition	4 x 0.22 mm <sup>2</sup>
Wire insulation material	PvR
Status LED	1 LED (yellow) for output state
Supply voltage limits	10...36 V DC
Switching frequency	<= 1000 Hz
Voltage drop	<= 2 V (closed)
Current consumption	0...10 mA (no-load)

Delay first up	<= 5 ms
Delay response	<= 0.3 ms
Delay recovery	<= 0.7 ms
Marking	CE
Threaded length	33 mm
Height	30 mm
Length	41 mm
Product weight	0.12 kg 0.16 kg

## Environment

Standards	EN/ISO 13849-1 IEC 62061
Product certifications	CSA TÜV UL E2
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 (duration = 11 ms) conforming to IEC 60068-2-27

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0821 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available <a href="#">Download Product Environmental</a>
Product end of life instructions	Available <a href="#">Download End Of Life Manual</a>

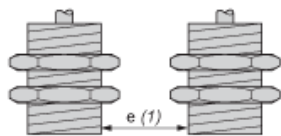
Dimensions



(1) LED

## Minimum Mounting Distances

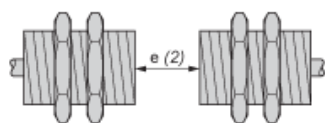
Side by side



$e (1) \geq 60 \text{ mm}/2.36 \text{ in.}$

$\geq$

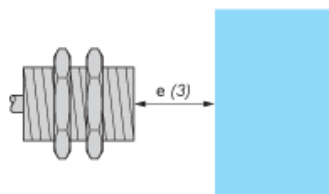
Face to face



$e (2) \geq 180 \text{ mm}/7.09 \text{ in.}$

$\geq$

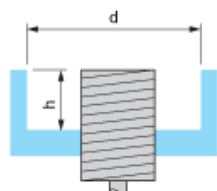
Facing a metal object



$e (3) \geq 45 \text{ mm}/1.77 \text{ in.}$

$\geq$

Mounted in a metal support

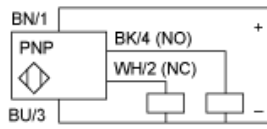


$d \geq 90 \text{ mm}/3.54 \text{ in.}$

$h \geq 30 \text{ mm}/1.18 \text{ in.}$

## Wiring Schemes

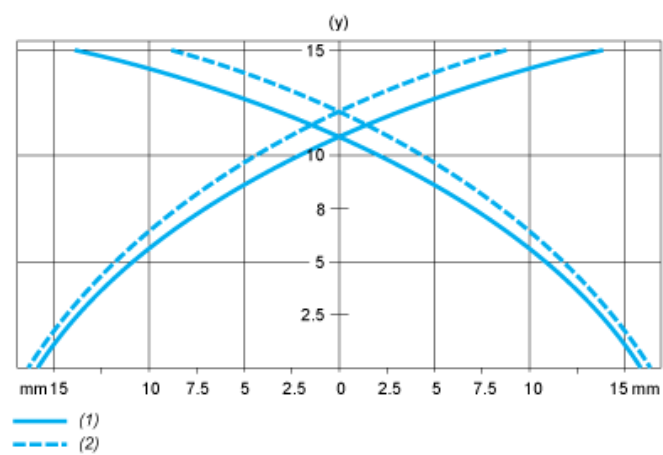
### PNP 4-wire



BU : Blue  
BN : Brown  
BK : Black  
WH : White

## Performance Curves

Standard Steel Target : 45x45x1 mm



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