## Product data sheet Characteristics

# XS1M30MB250

inductive sensor XS1 M30 - L60mm - brass - Sn10mm - 24..240VAC/DC - cable 2m





#### Main

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Range of product	OsiSense XS	
Series name	General purpose	
Sensor type	Inductive proximity sensor	
Wiring configuration	2-wire	
Output circuit type	AC/DC	
Protection type	Short-circuit protection	
Device application	2-wire DC short-circuit protection	
Sensor name	XS1	
Sensor design	Cylindrical M30	
Size	60 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 NC	
Electrical connection	Cable	
Cable length	2 m	
[Us] rated supply voltage	24240 V AC 50/60 Hz 24210 V DC	
Switching capacity in mA	5200 mA DC with overload and short-circuit protection 5300 mA AC with overload and short-circuit protection	
IP degree of protection	IP68 double insulation conforming to IEC 60529	

#### Complementary

Complementary		<u> </u>	ŝ
Thread type	M30 x 1.5		<u>.</u>
Detection face	Frontal		5

Operating zone         08 mm           Differential travel         115% of Sr           Cable composition         2 x 0.34 mm²           Wire insulation material         PvR           Status LED         1 LED green for supply on 1 LED yellow for output state           Supply voltage limits         20264 V AC/DC           Residual current         <= 1.5 mA for open state           Switching frequency         <= 2000 Hz DC           <= 25 Hz AC         <= 25 Hz AC           Voltage drop         <= 5.5 V at closed state state           Delay first up         <= 70 ms           Delay response         <= 2 ms           Delay recovery         <= 5 ms           Marking         CE           Threaded length         51 mm           Height         30 mm           Length         60 mm	Front material	PPS
Differential travel         115% of Sr           Cable composition         2 x 0.34 mm²           Wire insulation material         PvR           Status LED         1 LED green for supply on 1 LED yellow for output state           Supply voltage limits         20264 V AC/DC           Residual current         <= 1.5 mA for open state	Enclosure material	Nickel plated brass
Cable composition 2 x 0.34 mm²  Wire insulation material PvR  Status LED 1 LED green for supply on 1 LED yellow for output state  Supply voltage limits 20264 V AC/DC  Residual current <= 1.5 mA for open state  Switching frequency <= 2000 Hz DC <= 25 Hz AC  Voltage drop <= 5.5 V at closed state state  Delay first up <= 70 ms  Delay response <= 2 ms  Delay recovery <= 5 ms  Marking CE  Threaded length 51 mm  Height 30 mm  Length 60 mm	Operating zone	08 mm
Wire insulation material  Status LED  1 LED green for supply on 1 LED yellow for output state  Supply voltage limits  20264 V AC/DC  Residual current  <= 1.5 mA for open state  Switching frequency  <= 2000 Hz DC  <= 25 Hz AC  Voltage drop  <= 5.5 V at closed state state  Delay first up  C= 70 ms  Delay response  <= 2 ms  Delay recovery  <= 5 ms  Marking  CE  Threaded length  51 mm  Height  30 mm  Length  60 mm	Differential travel	115% of Sr
Status LED  1 LED green for supply on 1 LED yellow for output state  Supply voltage limits  20264 V AC/DC  Residual current  <= 1.5 mA for open state  Switching frequency  <= 2000 Hz DC <= 25 Hz AC  Voltage drop  <= 5.5 V at closed state state  Delay first up  C= 70 ms  Delay response  <= 2 ms  Delay recovery  <= 5 ms  Marking  CE  Threaded length  51 mm  Height  30 mm  Length  60 mm	Cable composition	2 x 0.34 mm <sup>2</sup>
1 LED yellow for output state  Supply voltage limits 20264 V AC/DC  Residual current <= 1.5 mA for open state  Switching frequency <= 2000 Hz DC <= 25 Hz AC  Voltage drop <= 5.5 V at closed state state  Delay first up <= 70 ms  Delay response <= 2 ms  Delay recovery <= 5 ms  Marking CE  Threaded length 51 mm  Height 30 mm  Length 60 mm	Wire insulation material	PvR
Residual current <= 1.5 mA for open state  Switching frequency <= 2000 Hz DC <= 25 Hz AC  Voltage drop <= 5.5 V at closed state state  Delay first up <= 70 ms  Delay response <= 2 ms  Delay recovery <= 5 ms  Marking CE  Threaded length 51 mm  Height 30 mm  Length 60 mm	Status LED	
Switching frequency <= 2000 Hz DC <= 25 Hz AC  Voltage drop <= 5.5 V at closed state state  Delay first up <= 70 ms  Delay response <= 2 ms  Delay recovery <= 5 ms  Marking CE  Threaded length 51 mm  Height 30 mm  Length 60 mm	Supply voltage limits	20264 V AC/DC
<= 25 Hz AC	Residual current	<= 1.5 mA for open state
Delay first up         <= 70 ms	Switching frequency	
Delay response         <= 2 ms	Voltage drop	<= 5.5 V at closed state state
Delay recovery         <= 5 ms	Delay first up	<= 70 ms
Marking CE Threaded length 51 mm Height 30 mm Length 60 mm	Delay response	<= 2 ms
Threaded length 51 mm Height 30 mm Length 60 mm	Delay recovery	<= 5 ms
Height 30 mm Length 60 mm	Marking	CE
Length 60 mm	Threaded length	51 mm
	Height	30 mm
Product weight 0.205 kg	Length	60 mm
	Product weight	0.205 kg

## Environment

Product certifications	CSA UL CCC	
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 60068-2-7	

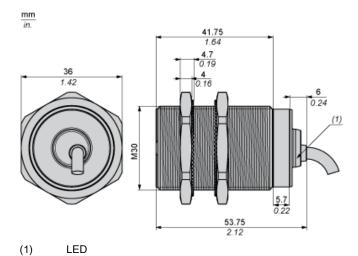
## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0811 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
	End of Life Information
Product end of life instructions	Available

#### Contractual warranty

Warranty period	18 months	

## **Dimensions**

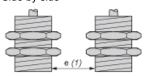


# Product data sheet Mounting and Clearance

# XS1M30MB250

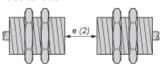
## Minimum Mounting Distances

#### Side by side

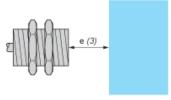


e (1) ≥ 20 mm/0.79 in

Face to face



e (2) ≥ 120 mm/4.72 in Facing a metal object



e (3) ≥ 30 mm/1.18 in.

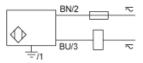
# Product data sheet Connections and Schema

# XS1M30MB250

## Wiring Schemes

## 2-Wire AC or DC

NC output



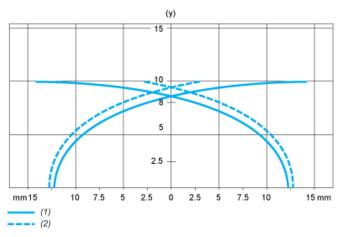
BU: Blue Brown

## Product data sheet **Performance Curves**

## XS1M30MB250

#### **Performance Curves**

## Standard Steel Target: 30x30x1 mm



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

## XS1M30MB250 is replaced by:



## Inductive sensors XS XS630B1MBL2

inductive sensor XS6 M30 - L62mm - brass - Sn15mm - 24..240VAC/DC - cable 2m Qty 1

Reason for Substitution: End of life | Substitution date: 30 September 2005