

# Osiprox Inductive Proximity Sensors \_ Standard



flush mountable in metal



	Type J (8 x 22)	Type F (15 x 32)	Type E (26 x 26)	Type C (40 x 40)
Nominal Sensing Distance Sn	2.5 mm	5 mm	10 mm	15 mm
Usable sensing distance (mm)	0...2	0...4	0...8	0...12
For flush mounting in metal	shielded	shielded	shielded	shielded
Enclosure M (metal) P (plastic)	P	P	P	P
Temperature range °F (°C)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)
Degree of protection (conforming to IEC 60 529)	pre-cabled: IP68 (with connector: IP67)			

### Sensors for DC applications (3-wire)

Connection: pre-cabled PvR (2 m)

Dimensions (mm) Ø x L or H x W x L			8 x 8 x 22	8 x 15 x 32	26 x 26 x 13	40 x 40 x 15
3-wire	PNP	NO	XS7J1A1PAL2	XS7F1A1PAL2	XS7E1A1PAL2	XS7C1A1PAL2
	PNP	NC	XS7J1A1PBL2	XS7F1A1PBL2	XS7E1A1PBL2	XS7C1A1PBL2
	NPN	NO	XS7J1A1NAL2	XS7F1A1NAL2	XS7E1A1NAL2	XS7C1A1NAL2
	NPN	NC	XS7J1A1NBL2	XS7F1A1NBL2	XS7E1A1NBL2	XS7C1A1NBL2

Connection: M8 (1) or M12 connector

Dimensions (mm) Ø x L or H x W x L			8 x 8 x 22	8 x 15 x 32	26 x 26 x 13	40 x 40 x 15
3-wire	PNP	NO	XS7J1A1PAL01M8 (2)	XS7F1A1PAL01M8 (2)	XS7E1A1PAM8	XS7C1A1PAM8
	PNP	NC	XS7J1A1PBL01M8 (2)	XS7F1A1PBL01M8 (2)	XS7E1A1PBM8	XS7C1A1PBM8
	NPN	NO	XS7J1A1NAL01M8 (2)	XS7F1A1NAL01M8 (2)	XS7E1A1NAM8	XS7C1A1NAM8
	NPN	NC	XS7J1A1NBL01M8 (2)	XS7F1A1NBL01M8 (2)	XS7E1A1NBM8	XS7C1A1NBM8
Supply voltage limits min/max (V) including ripple			10...36	10...36	10...36	10...36
Switching capacity, max (mA)			100	100	100	100
Overload and Short-circuit protection (♦) / LED output state indication (✱)			♦ / ✱	♦ / ✱	♦ / ✱	♦ / ✱
Voltage drop, closed state (V) at I nominal			≤ 2	≤ 2	≤ 2	≤ 2
Switching frequency (Hz)			2000	2000	1000	1000

### Sensors for AC or DC applications (2-wire)

Connection: pre-cabled PvR (2 m)

Dimensions (mm) Ø x L or H x W x L			8 x 8 x 22	8 x 15 x 32	26 x 26 x 13	40 x 40 x 15
2-wire	non-polarized	NO	XS7J1A1DAL2	XS7F1A1DAL2	XS7E1A1DAL2	XS7C1A1DAL2
		NC	XS7J1A1DBL2	XS7F1A1DBL2	XS7E1A1DBL2	XS7C1A1DBL2

Connection: M8 or M12 connector

Dimensions (mm) Ø x L or H x W x L			8 x 8 x 22	8 x 15 x 32	26 x 26 x 13	40 x 40 x 15
2-wire	non-polarized	NO	XS7J1A1DAL01M8 (2)	XS7F1A1DAL01M8 (2)	XS7E1A1DAM8	XS7C1A1DAM8
		NC	XS7J1A1DBL01M8 (2)	XS7F1A1DBL01M8 (2)	XS7E1A1DBM8	XS7C1A1DBM8
Supply voltage limits min/max (V) including ripple on DC			10...36	10...36	10...36	10...36
Switching capacity, max (mA)			100	100	100	100
Overload and Short-circuit protection (♦) / LED output state indication (✱)			♦ / ✱	♦ / ✱	♦ / ✱	♦ / ✱
Residual current, open state (mA)			≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Voltage drop, closed state (V) at I nominal			≤ 4	≤ 4	≤ 4	≤ 4
Switching frequency (Hz) AC / DC			4000	5000	1000	1000

(1) M8 not Snap-C<sup>®</sup> compatible

(2) Pigtail cable (L = 0.15 m) with M8 connector

### Accessories

For flat sensors, forms J, F, E, C and D			straight	90°	Adaptor plate for block type sensors XSE / XSC / XSD
	Type J		XSZBJ00	XSZBJ90	-
	Type F		XSZBF00	XSZBF90	-
	Type E		XSZBE00	XSZBE90	XSZBE10
	Type C		XSZBC00	XSZBC90	XSZBC10
	Type D		XSZBD00	-	XSZBD10

  

Mounting bracket with indexing pin for cylindrical sensors			
	M8		XSZB108
	M12		XSZB112
	M18		XSZB118
	M30		XSZB130



Type D (80 x 80)	Cylindrical Ø 8	Cylindrical Ø 12	Cylindrical Ø 18	Cylindrical Ø 30
40 mm	1.5 mm	2 mm	5 mm	10 mm
0...32	0...1.2	0...1.6	0...4	0...8
shielded	shielded	shielded	shielded	shielded
P	M	M	M	M
- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)	- 13...158 (- 25...70)
pre-cabled: IP68 (with connector: IP67)	pre-cabled: IP68 (with connector: IP67)			
80 x 80 x 26	M8 x 33	M12 x 33	M18 x 36.5	M30 x 40.6
<b>XS7D1A1PAL2</b>	<b>XS508B1PAL2</b>	<b>XS512B1PAL2</b>	<b>XS518B1PAL2</b>	<b>XS530B1PAL2</b>
<b>XS7D1A1PBL2</b>	<b>XS508B1PBL2</b>	<b>XS512B1PBL2</b>	<b>XS518B1PBL2</b>	<b>XS530B1PBL2</b>
<b>XS7D1A1NAL2</b>	<b>XS508B1NAL2</b>	<b>XS512B1NAL2</b>	<b>XS518B1NAL2</b>	<b>XS530B1NAL2</b>
<b>XS7D1A1NBL2</b>	<b>XS508B1NBL2</b>	<b>XS512B1NBL2</b>	<b>XS518B1NBL2</b>	<b>XS530B1NBL2</b>
<b>XS7D1A1PAM12</b>	<b>XS508B1PAM8</b>	<b>XS512B1PAM12</b>	<b>XS518B1PAM12</b>	<b>XS530B1PAM12</b>
<b>XS7D1A1PBM12</b>	<b>XS508B1PBM8</b>	<b>XS512B1PBM12</b>	<b>XS518B1PBM12</b>	<b>XS530B1PBM12</b>
<b>XS7D1A1NAM12</b>	<b>XS508B1NAM8</b>	<b>XS512B1NAM12</b>	<b>XS518B1NAM12</b>	<b>XS530B1NAM12</b>
<b>XS7D1A1NBM12</b>	<b>XS508B1NBM8</b>	<b>XS512B1NBM12</b>	<b>XS518B1NBM12</b>	<b>XS530B1NBM12</b>
10...36	10...58	10...58	10...58	10...58
100	200	200	200	200
◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖
≤ 2	≤ 2	≤ 2	≤ 2	≤ 2
100	5000	5000	2000	1000
80 x 80 x 26	M8 x 50	M12 x 50	M18 x 52.5	M30 x 50
<b>XS7D1A1DAL2</b>	<b>XS508B1DAL2</b>	<b>XS512B1DAL2</b>	<b>XS518B1DAL2</b>	<b>XS530B1DAL2</b>
<b>XS7D1A1DBL2</b>	<b>XS508B1DBL2</b>	<b>XS512B1DBL2</b>	<b>XS518B1DBL2</b>	<b>XS530B1DBL2</b>
<b>XS7D1A1DAM12</b>	<b>XS508B1DAM12</b>	<b>XS512B1DAM12</b>	<b>XS518B1DAM12</b>	<b>XS530B1DAM12</b>
<b>XS7D1A1DBM12</b>	<b>XS508B1DBM12</b>	<b>XS512B1DBM12</b>	<b>XS518B1DBM12</b>	<b>XS530B1DBM12</b>
10...36	10...36	10...36	10...36	10...36
100	200	200	200	200
◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖	◆ / ✖
≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
≤ 4	≤ 4	≤ 4	≤ 4	≤ 4
100	4000	4000	3000	2000

Plug-in female connectors, including pre-wired versions			
	elbowed	straight	Snap-C
length 5 m w/o LED			
M8	<b>XSZCS112</b>	<b>XSZCS101</b>	-
M12	<b>XSZCD112Y</b>	<b>XSZCD102Y</b>	<b>XSCC12FDM40V</b>
U20	<b>XSZCA111Y</b>	<b>XSZCA101Y</b>	-