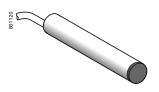
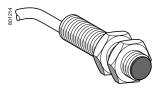
References

Inductive proximity sensors
Osiprox® Application
Basic, cylindrical, flush mountable and non flush mountable Two-wire, a.c. supply

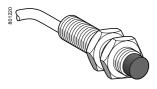
Three-wire, d.c. supply, solid-state output



XS1 L06•A140



XS1 Deeee140 XS1 M●●FA264



XS2 D••••140



XS1 Deeee140D



XS2 D •••• 140D

Ø 6 flush n	nountable	e (1)			
Sensing distance (Sn)	Function	Output	Connection	Reference	Weight
mm					kg
1.5	NO	PNP	Pre-cabled (L = 2 m)	XS1 L06PA140	0.025
		NPN	Pre-cabled (L = 2 m)	XS1 L06NA140	0.025
Ø 8 flush n	nountable	e (1)			
Sensing distance (Sn)	Function	Output	Connection	Reference	Weight
mm	NO	DND	Due calded (L. O.s.)	V04 D00D4440	kg
1.5	NO	PNP	Pre-cabled (L = 2 m)	XS1 D08PA140	0.035
		NPN	M12 connector	XS1 D08PA140D	0.025
		NPN	Pre-cabled (L = 2 m)	XS1 D08NA140	0.035
			M12 connector	XS1 D08NA140D	0.025
Ø 12 (1)					
Sensing distance (Sn)	Function	Output	Connection	Reference	Weight
mm					
					kg
Three-wire	: flush mou	ntable			kg
	: flush mou NO	ntable PNP	Pre-cabled (L = 2 m)	XS1 D12PA140	
Three-wire			M12 connector	XS1 D12PA140 XS1 D12PA140D	0.075
Three-wire					0.075 0.025
Three-wire ====2	NO	PNP NPN	M12 connector	XS1 D12PA140D	0.075 0.025 0.075
Three-wire	NO	PNP NPN	M12 connector Pre-cabled (L = 2 m)	XS1 D12PA140D XS1 D12NA140	0.075 0.025 0.075
Three-wire ====2	NO	PNP NPN	M12 connector Pre-cabled (L = 2 m)	XS1 D12PA140D XS1 D12NA140 XS1 D12NA140D	0.075 0.025 0.075 0.025
Three-wire ====2 Two-wire ~ f	NO I lush moun NO	PNP NPN table	M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m)	XS1 D12PA140D XS1 D12NA140 XS1 D12NA140D	0.075 0.025 0.075 0.025
Three-wire2 Two-wire ~ f	NO I lush moun NO	PNP NPN table	M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m)	XS1 D12PA140D XS1 D12NA140 XS1 D12NA140D	0.075 0.025 0.075 0.025
Three-wire2 Two-wire ~ f 2 Three-wire	NO flush mount NO : non flush	PNP NPN table	M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m)	XS1 D12PA140D XS1 D12NA140 XS1 D12NA140D XS1 D12NA140D XS1 M12FA264	0.075 0.025 0.075 0.025 0.075
Three-wire2 Two-wire ~ f 2 Three-wire	NO flush mount NO : non flush	PNP NPN table	M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m) le Pre-cabled (L = 2 m)	XS1 D12PA140D XS1 D12NA140 XS1 D12NA140D XS1 D12NA140D XS1 M12FA264 XS2 D12PA140	0.075 0.025 0.075 0.025
Three-wire2 Two-wire ~ f 2 Three-wire	NO flush mount NO : non flush	NPN table mountab	M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m) le Pre-cabled (L = 2 m) M12 connector	XS1 D12PA140D XS1 D12NA140 XS1 D12NA140D XS1 M12FA264 XS2 D12PA140 XS2 D12PA140D	0.075 0.025 0.075 0.025 0.075 0.075
Three-wire2 Two-wire ~ f 2 Three-wire	NO flush mount NO : non flush	NPN table mountab	M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m) Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m)	XS1 D12PA140D XS1 D12NA140 XS1 D12NA140D XS1 M12FA264 XS2 D12PA140 XS2 D12PA140D XS2 D12NA140D	0.075 0.025 0.075 0.025 0.075
Three-wire Two-wire ~ f Three-wire Three-wire	NO flush mount NO : non flush	NPN table mountab	M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m) Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m) M12 connector Pre-cabled (L = 2 m)	XS1 D12PA140D XS1 D12NA140 XS1 D12NA140D XS1 M12FA264 XS2 D12PA140 XS2 D12PA140D XS2 D12NA140D	0.075 0.025 0.075 0.025 0.075 0.075

mm					kg
Three-wire	e flush m	ountable			
5	NO	PNP	Pre-cabled (L = 2 m)	XS1 D18PA140	0.120
			M12 connector	XS1 D18PA140D	0.060
		NPN	Pre-cabled (L = 2 m)	XS1 D18NA140	0.120
			M12 connector	XS1 D18NA140D	0.060
Two-wire	\sim flush mo	untable			
5	NO		Pre-cabled (L = 2 m)	XS1 M18FA264	0.120
Three-wire	e non flus	sh mountal	ole		
8	NO	PNP	Pre-cabled (L = 2 m)	XS2 D18PA140	0.120
			M12 connector	XS2 D18PA140D	0.060
		NPN	Pre-cabled (L = 2 m)	XS2 D18NA140	0.120
			M12 connector	XS2 D18NA140D	0.060

Ø 30 (1)					
Sensing distance (Sn)	Function	Output	Connection	Reference	Weight
mm					kg
Three-wire	flush mou	ntable			
10	NO	PNP	Pre-cabled (L = 2 m)	XS1 D30PA140	0.205
			M12 connector	XS1 D30PA140D	0.100
		NPN	Pre-cabled (L = 2 m)	XS1 D30NA140	0.205
			M12 connector	XS1 D30NA140D	0.100
Two-wire ∼ f	flush moun	table			
10	NO		Pre-cabled (L = 2 m)	XS1 M30FA264	0.205
Three-wire	non flush	mountab	le		
15	NO	PNP	Pre-cabled (L = 2 m)	XS2 D30PA140	0.205
			M12 connector	XS2 D30PA140D	0.100
		NPN	Pre-cabled (L = 2 m)	XS2 D30NA140	0.205
			M12 connector	XS2 D30NA140D	0.100

Characteristics, schemes, setting-up, dimensions

Inductive proximity sensors

Osiprox® Application

Basic, cylindrical, flush mountable and non flush mountable Two-wire, a.c. supply

Three-wire, d.c. supply, solid-state output

Sensor type				XS1 DeceseeD, XS2 DeceseeD	XS1 Decesses, XS2 Decesses
Product certifications			UL, CSA, C€		
Connection			M12 connector	Pre-cabled L: 2 m	
Operating zone		Ø 6 and Ø 8	mm	01.2	
(1)		Ø 12	mm	03.2 (products non flush mountable in metal)	
	Ø 12	mm	01.6 (products flush mountable in metal)		
		Ø 18	mm	06.4 (products non flush mountable in metal)	
		Ø 18	mm	04 (products flush mountable in metal)	
		Ø 30	mm	012 (products non flush mountable in metal)	
		Ø 30	mm	08 (products flush mountable in metal)	
Differential trav	el		%	115 of real sensing distance (Sr)	
Degree of prote	ction	Conforming to IEC 60529		IP 66	
Storage temper	ature range		°C	- 40+ 85	
Operating temp	erature range		°C	- 25+ 70	
Materials			Case: nickel plated brass, cable: PVC 3 x 0.34 mm 2 — and 2 x 0.34 mm 2 \sim (except Ø 8: 3 x 0.11 mm 2)		
Vibration resistance Conforming to IEC 60068-2-6			25 gn, amplitude ± 2 mm (f = 10 to 55 Hz)		
Shock resistand	Shock resistance Conforming to IEC 60068-2-27			50 gn, duration 11 ms	
Output state inc	Output state indication			LED, 4 viewing ports at 90° rear LED	
Rated supply vo	oltage	3-wire	٧	== 1224 with protection against reverse polarity	
		2-wire	٧	_	∼ 24240
Voltage limits (including ripple)		3-wire	٧	<u></u> 1030	
		2-wire	٧	-	~ 20264
Current consum	nption, no-load	3-wire	mΑ	≤10	
Switching capa	city	3-wire	mΑ	≤ 100 (< 50 for XS1 L06 and XS1 D08) w	ith overload and short-circuit protection
		2-wire	mΑ	_	5300 (5200 for XS1 M12) (2)
Voltage drop, closed state		3-wire	٧	≤3	•
		2-wire	٧	_	≤ 4.5 (≤ 7 for XS1 M12)
Maximum switc	hing frequency	2-wire	Hz	25	
		Ø 6 and Ø 8	Hz	3000	
		Ø 12	Hz	2000 XS1, 2000 XS2	
		Ø 18	Hz	1000 XS1, 250 XS2	
Ø 30		Ø 30	Hz	200 XS1, 60 XS2	
Delays	First-up	3-wire	ms	≤ 5 (≤ 10 XS1 D30 and XS2 D30)	
-		2-wire	ms	-	≤ 40 ms
	Response	3-wire	ms	≤ 0.5 for XS1 L06 , XS1 D08 , XS1 D12 , ≤ 1 ≤ 2 for XS1 D30 , XS2 D30	1 for XS2 D12, XS1 D18, XS2 D18,
		2-wire	ms	-	≤ 10
	Recovery	3-wire	ms	S ≤ 0.5 for XS1 D12, ≤ 1 for XS1 L06, XS1 D08, ≤ 2 for XS2 D12, XS1 D18, XS2 D18, ≤ 6 for XS1 D30, XS2 D30	
		2-wire	ms	_	≤ 15

