



	M12	M18	M18
Nominal sensing distance Sn	5 or 10 cm depending on model	15 or 50 cm depending on model	50 mm
Mode proximity or retroreflective (1)	20 cm	61 or 100 cm depending on model	
Mode thru-beam			
Operating zone for proximity mode	0.64 to 5.1 cm (XX512A1) 0.64 to 10.2 cm (XX512A2)	1.9 to 15.2 cm (XX518A1) 5.1 to 50.8 cm (XX518A3)	2 to 50 mm
Sensitivity adjustment	Mounted	Adjustable using remote control for XX518 A3. Mounted for XX518A1, XXT18, XXR18	Mounted
Case M (metal), P (plastic)	P	P	M
Product certification	CE	CE	CE
Temperature range	-4 to +149 °F (-20 to +65 °C)	+32 to +122 °F (0 to +50 °C) (3) -4 to 149 °F (-20 to +65 °C) (4) +32 to +140 °F (0 to +60 °C) (5)	+32 to +140 °F (0 to +60 °C)
Degree of protection (conforming to IEC 60529)	IP67		
Dimensions Ø x L: mm (in.)	M12 x 50 (1.97)	M18 x 65 (2.56)	M12: M18 x 75 (2.95) Cable: M18 x 65 (2.56)

Proximity or Retroreflective (1) mode with Discrete output for DC applications (24 V)

Connection			M8 connector	M12 connector	Precabled (2 m), M12 connector
3-wire	PNP	NO function	XX512A2PAM8 (10 cm)	XX518A3PAM12 (50 cm)	XXV18B1PAL2 (cable), XXV18B1PAM12 (M12)
	NPN	NO function	XX512A2NAM8 (10 cm)	XX518A3NAM12 (50 cm)	XXV18B1NAL2 (cable), XXV18B1NAM12 (M12)
4-wire	PNP/NPN	NO function	XX512A1KAM8 (5 cm)	XX518A1KAM12 (15 cm)	-

Application—monitoring levels

	2 emptying levels	PNP NO function	-	XX218A3PHM12 (2)	-
	2 filling levels	PNP NO function	-	XX218A3PFM12 (2)	-
Supply voltage limits, min./max. (V) including ripple			10 to 28		
Switching capacity, max. (mA)			<100		
Short-circuit protection (★)			★		
LED output state indicator (⊗) / Power on LED (⊗)			⊗ / ⊗	⊗ / ⊗ except XX518A1** (- / -)	
Voltage drop, closed state (V) at I nominal			<1		
Switching frequency (Hz)			125	40	80
Transmission frequency (Hz)			500	300	

Proximity mode with Analog output for DC applications (24 V)

Connection			M12 connector		
4-wire	Analog	0 to 10 V output	-	XX918A3F1M12	-
		4 to 20 mA output	-	XX918A3C2M12	-
Supply voltage limits, min./max. (V) including ripple			-	10 to 28	-
Short-circuit protection (★)			-	★	-
LED output state indicator (⊗) / Power on LED (⊗)			-	⊗ / ⊗	-
Transmission frequency (Hz)			-	300	-

Thru-beam mode with Discrete output for DC applications (24 V)

Connection			M8 connector	M12 connector	
4-wire	Receiver (NO/PNP + NO NPN)		XXR12A8KAM8	XXR18A3KAM12 (0.61 m) XXR18A4KAM12 (1 m)	-
	Receiver (NC/PNP + NC NPN)		XXR12A8KBM8	XXR18A3KBM12 (0.61 m) XXR18A4KBM12 (1 m)	-
	Transmitter		XXT12A8M8	XXT18A3M12 (0.61 m) XXT18A4M12 (1 m)	-

Accessories

See page 51 for programming and connectors, and page 52 for mounting

(1) Retroreflective mode only for sensor with adjustable sensitivity.

(2) 1 NO.

(3) XX518A1●●●.

(4) XX518A3●●●.

(5) XXT18, XXR18.