



Application	Thru-beam	Diffuse	Diffuse (1)	Retroreflective	Diffuse contrast
System					
Sensing distance	100 m (2)	0.07 m	0.07 m	10 to 1000 mm (3)	40 to 150 mm
Mounting (mm)	M18 x 1	M8 x 1	Direct, 2 M3 holes, mtg. centers 20 mm	Direct, 2 M3 holes, mounting centers 24 mm	
Sensitivity adjustment	Teach mode	–	Potentiometer	Teach mode	
Case M (metal) P (plastic) / Setup assistance LEDs ☉	P / ☉	M / –	M / ☉	P	
Temperature range	+14 to +113 °F (–10 to +45 °C)	–13 to +131 °F (–25 to +55 °C)	–25 to +140 °F (–25 to +60 °C)	–4 to +140 °F (–20 to +60 °C)	
Degree of protection (conforming to IEC 60529)	IP67	IP67	IP67, IP69K	IP67	
Product certification	CE, UL, CSA	CE, cULus	CE, cULus, C-TICK	CE, cULus	
Dimensions Ø x L or H x W x D: mm (in.)	Ø18 x 64 (2.52)	Ø8 x 40 (1.58)	40.8 x 16.2 x 29.5 (1.61 x 0.64 x 1.16)	35.8 x 12 x 20 (1.41 x 0.47 x 0.79)	

Sensors for DC applications (solid-state output: transistor)

Connection	Precabled	PVR (2 m)	PVC (2 m)		
Transmitter / Receiver	3-wire PNP NO function	XUAH0515	XUM5BPANL2	–	–
Connection	Connector	M8 4-pin			
Transmitter / Receiver	3-wire PNP NO function	XUAH0515S	–	–	–
	3-wire PNP programmable NO / NC	XUBLAPCNM12	–	–	XUYBCO929LSP
	3-wire NPN programmable NO / NC	XUBLANCNM12	–	–	XUYPCCO929LSP
Supply voltage limits, min./max. (V) including ripple	10 to 30	10 to 30	10 to 30	10 to 30	10 to 30
Switching capacity, max. (mA) / Switching frequency (Hz)	100 / 1500	100 / 700	100 / 1000	100 / 1000	100 / 1000
Overload and short-circuit protection (★) / LED output state indicator (☉)	★ / ☉	★ / ☉	★ / ☉	★ / ☉	★ / ☉



Application	Retroreflective polarized	Thru-beam	Back ground suppression	Diffuse
System				
Sensing distance	12 m (5)	25 m	0.8 m	1.2 m
Mounting (mm)	2 x Ø 4.3 holes / mounting centers 30			
Sensitivity adjustment	Teach mode	Teach mode	potentiometer	Teach mode
Case P (plastic) / Setup assistance LEDs ☉	P / ☉			
Temperature range / Degree of protection (conforming to IEC 60529)	–4 to +140 °F (–20 to +60 °C) / IP67 & IP69K			
Product certification	CE, Ecolab			
Dimensions H x W x D: mm (in.)	50 x 50 x 23 (1.97 x 1.97 x 0.91)			

Sensors for DC applications (solid-state output: transistor)

Connection	M12 connector – 4 pin				
	PNP NO function	–	–	–	–
	NPN NO function	–	–	–	–
	PNP programmable NO / NC	XUK9LAPSMM12 (4)	XUK2LAPSMM12R (4)	XUK8LAPPNM12 (4)	XUK5LAPSMM12 (4)
Transmitter	–	–	XUK2LAKSMM12T (4)	–	–
Supply voltage limits, min./max. (V) including ripple	12 to 30				
Switching capacity, max. (mA) / Switching frequency (Hz)	100 / ≤ 2000	100 / ≤ 3500	100 / ≤ 1000	100 / ≤ 600	
Overload and short-circuit protection (★) / LED output state indicator (☉)	★ / ☉				

- (1) Retroreflective and thru-beam systems also available.
- (2) or min. size of object: 0.2 mm.
- (3) With specific reflector XUY1111, format 50 x 50 mm. To be ordered separately.
- (4) Mounting bracket: XUZA51S to be ordered separately.
- (5) With reflector XUZC50HP to be ordered separately.