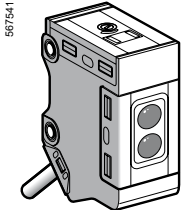
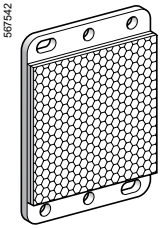


Photo-electric sensors

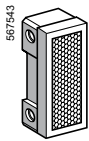
OsiSense XU Application, packaging and machine tool series
 Miniature design, metal
 Three-wire DC, solid-state output



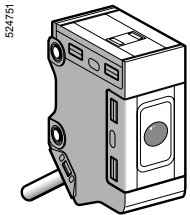
XUM 5B●NL2



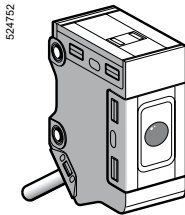
XUZ C50



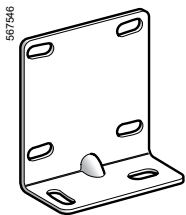
XUZ C08



XUM 2B2KCL2T



XUM 2B●NL2R



XUZ AM81

Sensing distance (Sn)	Function	Output	Connection	Reference	Weight kg
Diffuse system with adjustable sensitivity					
0.77 m	NO	PNP	Pre-cabled (L = 2 m)	XUM 5BPANL2	0.128
		NPN	Pre-cabled (L = 2 m)	XUM 5BNANL2	0.128
	NC	PNP	Pre-cabled (L = 2 m)	XUM 5BPPNL2	0.128
		NPN	Pre-cabled (L = 2 m)	XUM 5BNBNL2	0.128

Polarised reflex system					
5 m with reflector XUZ C50	NO	PNP	Pre-cabled (L = 2 m)	XUM 9BPANL2	0.128
		NPN	Pre-cabled (L = 2 m)	XUM 9BNANL2	0.128
2 m with reflector XUZ C08	NC	PNP	Pre-cabled (L = 2 m)	XUM 9BPPNL2	0.128
		NPN	Pre-cabled (L = 2 m)	XUM 9BNBNL2	0.128

Reflectors					
Universal reflector 50 x 50 mm	-	-	-	XUZ C50	0.020
Lateral reflector 8.6 x 29.5 mm	-	-	-	XUZ C08	0.006

Thru-beam system (transmitter + receiver)					
15 m	NO	PNP	Pre-cabled (L = 2 m)	XUM 2BPANL2	0.237
		NPN	Pre-cabled (L = 2 m)	XUM 2BNANL2	0.237
	NC	PNP	Pre-cabled (L = 2 m)	XUM 2BPPNL2	0.237
		NPN	Pre-cabled (L = 2 m)	XUM 2BNBNL2	0.237

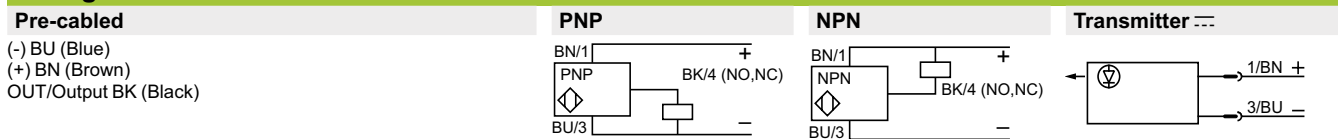
Transmitter only					
15 m	-	-	Pre-cabled (L = 2 m)	XUM 2BKCNL2T	0.128

Receiver only					
15 m	NO	PNP	Pre-cabled (L = 2 m)	XUM 2BPANL2R	0.128
		NPN	Pre-cabled (L = 2 m)	XUM 2BNANL2R	0.128
	NC	PNP	Pre-cabled (L = 2 m)	XUM 2BPPNL2R	0.128
		NPN	Pre-cabled (L = 2 m)	XUM 2BNBNL2R	0.128

Fixing accessory		
Description	Reference	Weight kg
Base mounting fixing bracket	XUZ AM81	0.020

Characteristics		XUM ●B●●NL2
Sensor type		CE, cULus, CTick
Product certifications		Length: 2 m
Connection	Pre-cabled	
Sensing distance		0.77 diffuse system with adjustable sensitivity
nominal Sn / maximum		5 polarised reflex
(excess gain = 2) (excess gain = 1)		15 thru-beam
Type of transmission		Infrared, except polarised reflex system (red)
Degree of protection		IP 65, IP 67
	Conforming to IEC 60529	IP 69K
	DIN 40050	
Storage temperature		°C - 40...+ 70
Operating temperature		°C - 30...+ 60
Materials		Zamack and stainless steel
	Case	
	Lens	Glass
	Cable	–
		PVC (black for transmitter, grey for other versions)
Vibration resistance		Conforming to IEC 60068-2-6
Shock resistance		Conforming to IEC 60068-2-27
Indicator lights		10 to 55 Hz, amplitude ± 1.5 mm, 2 hours in each direction X, Y and Z
	Output state	500 m/s ² 10 x in each direction X, Y and Z
	Stability	Orange LED (excluding transmitter)
	Transmitter	Green LED
	Receiver	Orange LED: supply on
		Red LED: light received; green LED: supply on
Rated supply voltage		V --- 12...24 with protection against reverse polarity
Voltage limits (including ripple)		V --- 10...30
Current consumption, no-load		mA 16 for XUM 5; 13 for XUM 9; 11 for transmitter XUM 2; 13 for receiver XUM 2
Switching capacity		mA ≤ 100 with overload and short-circuit protection
Voltage drop, closed state		V ≤ 3
Maximum switching frequency		Hz 1000
Delays		ms < 100
	First-up	ms 0.5
	Response	ms 0.5
	Recovery	ms 0.5

Wiring schemes



Curves

