

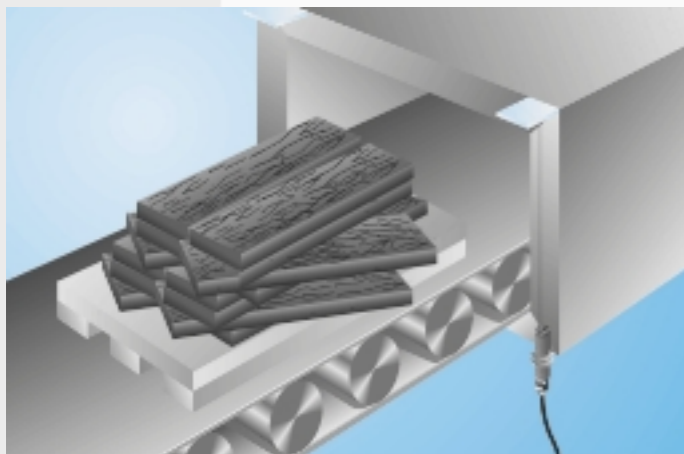
XD100PCV3

Part Number



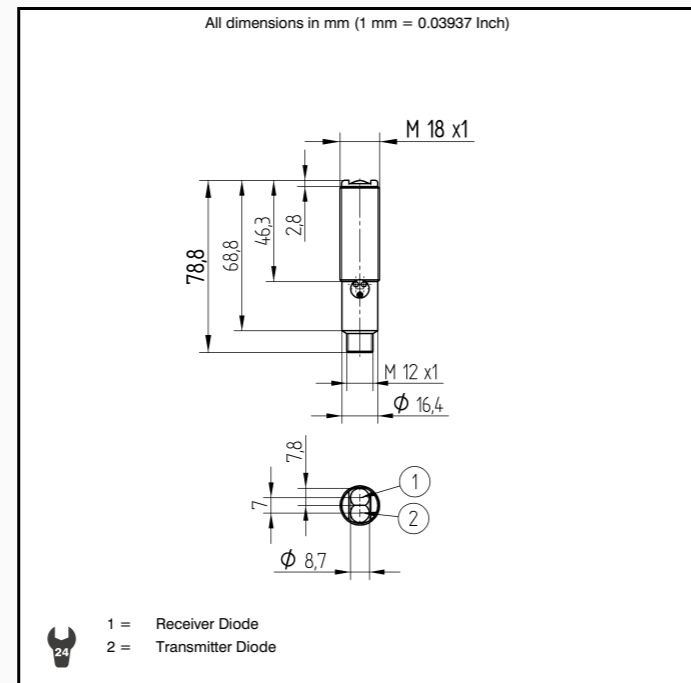
- Range: 14 m
- Smallest Recognizable Part: 0.1 mm
- Stainless Steel Housing
- Switching Frequency: 3 kHz

A reflector must be used in combination with these sensors. They can be installed in all kinds of industrial environments thanks to ample functional reserve. Even reflective objects can be reliably recognized through the use of polarized light.



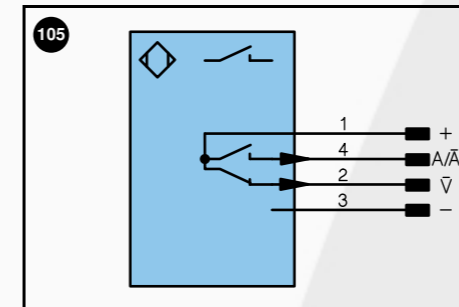
Technical Data

Optical Data	
Range	14000 mm
Reference Reflector	RQ100BA
Smallest Recognizable Part	100 μm
Switching Hysteresis	< 15 %
Light Source	Laser (red)
Wave Length	655 nm
Polarization Filter	yes
Service Life (T = +25°C)	100000 h
Laser Protection Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Opening Angle	1 °
Beam Divergence	< 15 mrad
Focus Distance	350 mm
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 30 mA
Switching Frequency	3 kHz
Response Time	167 μs
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Mechanical Data	
Housing	Stainless Steel
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V



Specifications are subject to change without notice
38/03

Plug Version	
Part Number	XD100PCV3
Contamination Output	●
PNP NO/NC switchable	●
Connection Diagram No.	105
Control Panel No.	D 5
Suitable Plug No.	1

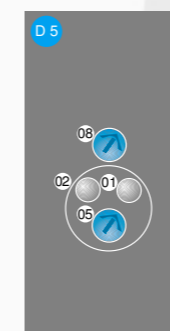


Legend				
+	Power supply "+"	U	Test input	Wire colors according to DIN IEC 757
-	Power supply "0V"	W	Trigger input	
~	Power supply (AC Voltage)	O	Analog output (1,2,3,...)	
A	Switching output (1,2,3...) / NO	O-	Ground for the analog output	
A	Switching output (1,2,3...) / NC	BZ	Block discharge	
V	Contamination / Error output (NO)	Aw	Valve output	
V	Contamination / Error output (NC)	a	Valve control output "+"	
E	Input (analog or digital)	b	Valve control output "0V"	
T	Teach input	SY	Synchronization	
Z	Time delay (activation)	E+	Receiver-Line	
S	Shielding	S+	Emitter-Line	
RxD	RS-232 receive path	⊕	Grounding	
TxD	RS-232 send path			
		BK	black	
		BN	brown	
		RD	red	
		OG	orange	
		YE	yellow	
		GN	green	
		BU	blue	
		VT	violet	
		GY	grey	
		WH	white	
		PK	pink	
		GYE	green yellow	

Accessories

- Mounting Clamp BSM18B
- Mounting Bracket W18
- Mounting Bracket W18L
- Reflector, Reflector Tape

Ctrl. Panel



- 01 = Switching Status Indicator
- 02 = Contamination Warning
- 05 = Switching Distance Adjuster
- 08 = NO/NC Switch

Smallest Recognizable Part

