## **Reflex Sensors**

## with Background Suppression

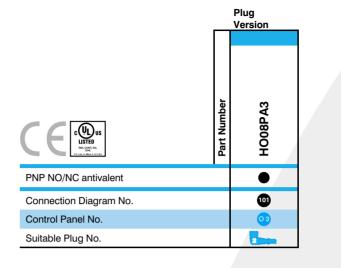


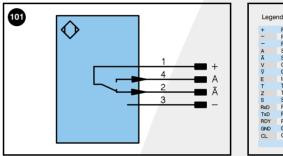


- Adjustable Switching Distance
- Excellent Ambient Light Suppression
- High Switching Frequency
- Large Detection Range

T. I. C. I. D. I.	
Technical Data	 
Optical Data	
Range	80 mm
Adjustable Range	2580 mm
Switching Hysteresis	< 5 %
Light Source	Red Light
Service Life (T = $+25^{\circ}$ C)	100000 h
max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	1030 V DC
Current Consumption (Ub = 24V)	< 40 mA
Switching Frequency	1 kHz
Response Time	500 μs
Temperature Drift	< 5 %
Temperature Range	-2560 °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	BrasNicPlated
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 12x1

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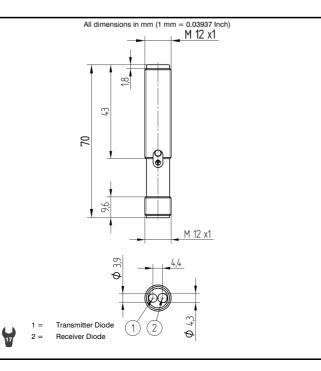






These sensors are particularly well suited for recognizing objects in front of any type of background. The colour, shape and surface characteristics of the object have practically no influence on sensor switching performance. Also these sensors don't influence each other if their light spots are pointed onto the same spot or against each other.





Specifications are subject to change without notice 13/06

## Accessories

Mounting Clamp BSM12B Mounting Bracket W12

## Ctrl.Panel



05 = Switching Distance Adjuster 31 = Switching Status/Contamination- / Short Circuit Warning



Table 1			
Range	40 mm	60 mm	80 mm
Light Spot Diameter	3 mm	5 mm	7 mm

			Wire colors according to DIN IEC 757		
	U	Test input	BK	black	
	W	Trigger input	BN	brown	
ge)	0	Analog output (1,2,3,)	RD	red	
) / NO	0-	Ground for the analog output	OG	orange	
) / NC	BZ	Block discharge	YE	yellow	
utput (NO)	Anv	Valve output	GN	green	
utput (NC)	a	Valve control output "+"	BU	blue	
	b	Valve control output "0V"	VT	violet	
	SY	Synchronization	GY	grey	
	E+	Receiver-Line	WH	white	
	S+	Emitter-Line	PK	pink	
	÷	Grounding	GNYE	green yellow	
	SnR	Switching Distance Reduction			
	USBD+	USB data +			
	USBD-	USB data -			
	Bue	Interfaces-Bus A(+)/B(-)			
	La	Emitted light disengageable			

Switching Distance Deviation

