

Reflex Sensors

with Background Suppression

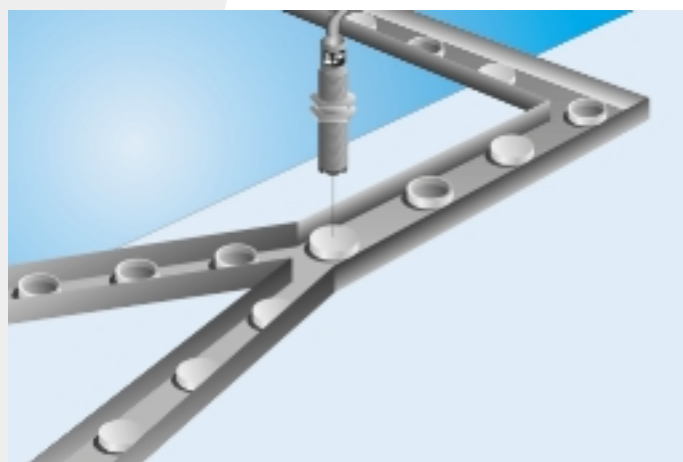
HO08PA

Part Number



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

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.



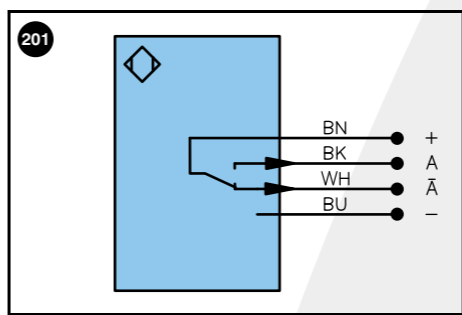
Technical Data

Optical Data	
Range	80 mm
Adjustable Range	25...80 mm
Switching Hysteresis	< 5 %
Light Source	Red Light
Service Life (T = +25°C)	100000 h
max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 40 mA
Switching Frequency	1 kHz
Response Time	500 μs
Temperature Drift	< 5 %
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	BrasNicPlated
Full Encapsulation	yes
Protection Mode	IP 67
Connection	Prewired
Cabel Length	2 m

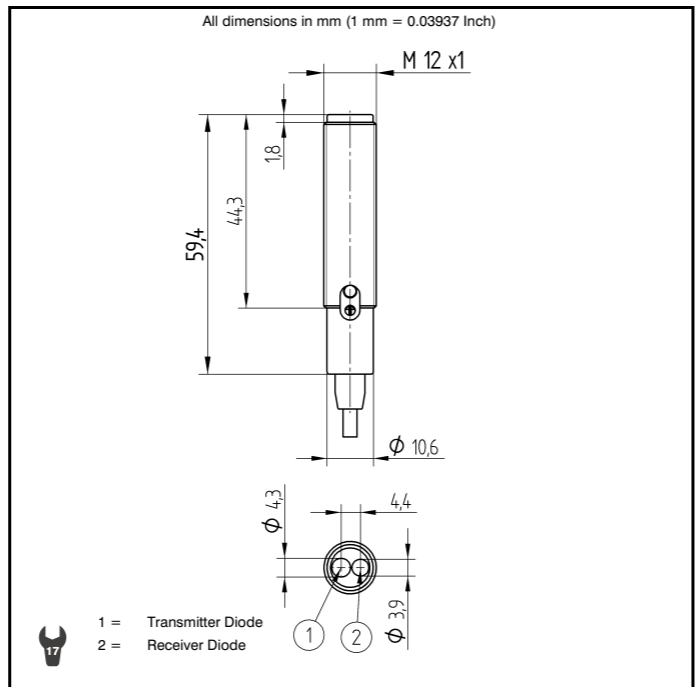
	Prewired Version
Part Number	HO08PA
CE	
UL LISTED	
PNP NO/NC antivalent	●
Connection Diagram No.	201
Control Panel No.	03

Table 1

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



Legend		Wire colors according to DIN IEC 757
+	Power supply "+"	BK black
-	Power supply "0V"	BN brown
-	Power supply (AC Voltage)	RD red
A	Switching output (1,2,3...) / NO	OG orange
Ā	Switching output (1,2,3...) / NC	YE yellow
V	Contamination / Error output (NO)	GN green
Ṽ	Contamination / Error output (NC)	BU blue
E	Input (analog or digital)	VT violet
T	Teach input	GY grey
Z	Time delay (activation)	WH white
S	Shielding	PK pink
RxD	RS-232 receive path	GNYE green yellow
TxD	RS-232 send path	
RDY	Ready	
GND	Ground	
CL	Clock	
U	Test input	
W	Trigger input	
O	Analog output (1,2,3...)	
O-	Ground for the analog output	
BZ	Block discharge	
AW	Valve output	
a	Valve control output "+"	
b	Valve control output "0V"	
SY	Synchronization	
E+	Receiver-Line	
S+	Emitter-Line	
+	Grounding	
S-R	Switching Distance Reduction	
USB+	USB data +	
USB-	USB data -	
Ba	Interfaces-Bus A(+)/B(-)	
La	Emitted light disengageable	



Accessories

- Mounting Clamp BSM12B
- Mounting Bracket W12

Ctrl. Panel



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

Switching Distance Deviation

Typical characteristic curve based on Kodak white, 90%

