

YH08PCT8

Part Number



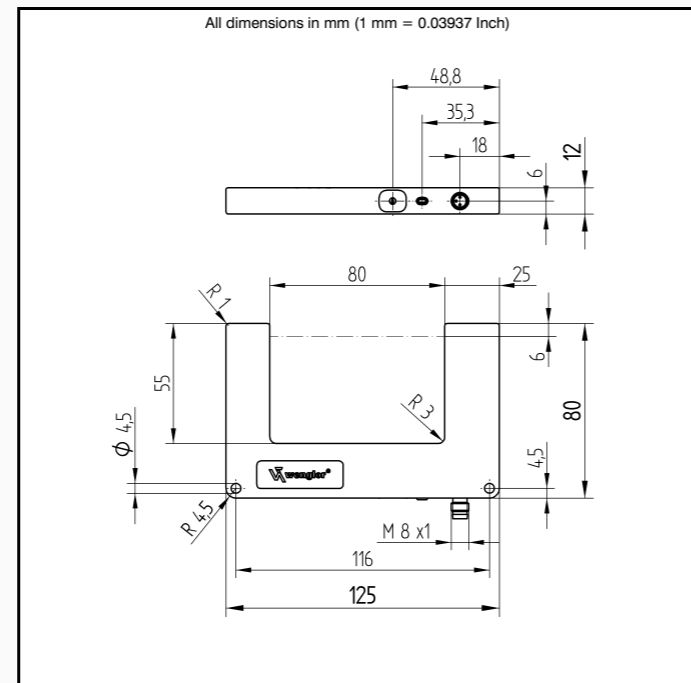
- Fine Light Beam (0.6 mm) over entire width of fork
- Recognition of Transparent Objects
- Repetition Accuracy: 5 μm
- Teach-In

The transmitter and the receiver are integrated into a single housing as a light barrier. If the active light beam between the transmitter and the receiver is interrupted, the output is switched accordingly. Thanks to the use of visible laser light, the sensor is very easy to align to the object. The use of a fine light beam ensures a small diameter spot over the entire width of the fork. This allows for the recognition of extremely small parts, holes, slots and notches.



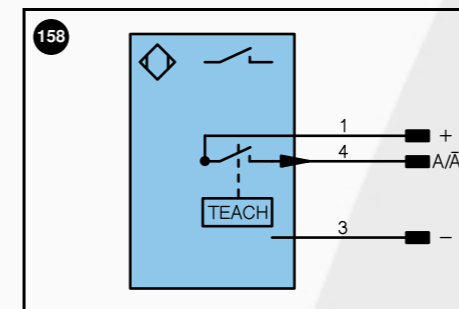
Technical Data

Optical Data	
Fork Width	80 mm
Smallest Recognizable Part	< 40 μm
Smallest Recognizable Slot	< 50 μm
Switching Hysteresis	< 20 μm
Light Source	Laser (red)
Wave Length	655 nm
Service Life (T = +25°C)	100000 h
Laser Protection Class (EN 60825-1)	2
max. Ambient Light	10000 Lux
Light Spot Diameter	0.6 mm
Repeat Accuracy	< 5 μm
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 50 mA
Switching Frequency	10 kHz
Response Time	50 μs
Time Delay	0...100 ms
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 1.5 V
PNP Switching Output/Switching Current	200 mA
internal Load Switching Output	5100 Ohm
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Teach Mode	NT,MT
Mechanical Data	
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 8x1



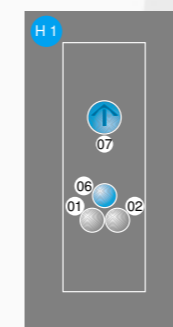
Specifications are subject to change without notice
11/03

Part Number	Plug Version
YH08PCT8	
PNP NO/NC switchable	●
Connection Diagram No.	158
Control Panel No.	H 1
Suitable Plug No.	



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
A-bar	Switching output (1,2,3...)/ NC	YE yellow
V	Contamination / Error output (NO)	GN green
E	Input (analog or digital)	BU blue
T	Teach input	VT violet
Z	Time delay (activation)	GY grey
S	Shielding	WH white
RxD	RS-232 receive path	PK pink
TxD	RS-232 send path	GNYE green yellow
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	

Ctrl. Panel



- 01 = Switching Status Indicator
- 02 = Contamination Warning
- 06 = Teach Button
- 07 = Selector Switch