Through Beam Sensor

OED000C0003

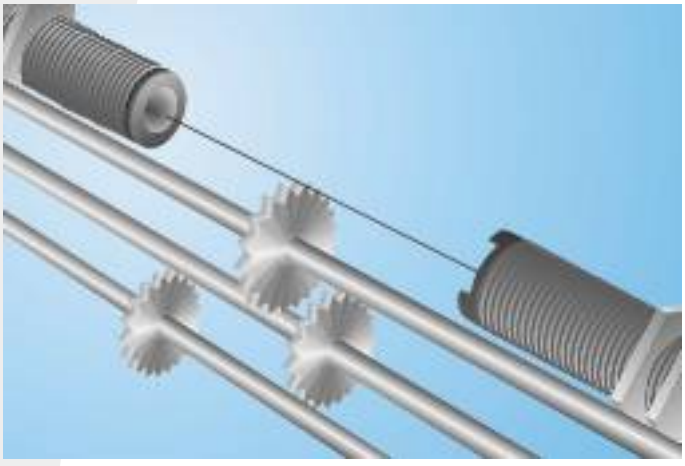
Part Number

- **Smallest Recognizable Part: 0.25 mm**
- **Special Coated Optic**
- **Teach-In**
- **Time Delay**

Technical Data

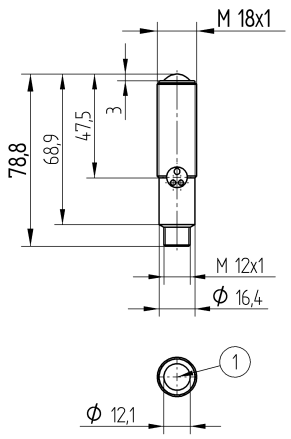
Optical Data	
Smallest Recognizable Part	> 250 µm
Switching Hysteresis	< 15 %
max. Ambient Light	10000 Lux
Opening Angle	12 °
Electrical Data	
Sensor Type	Receiver
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24V)	< 15 mA
Switching Frequency	3 kHz
Response Time	166 µs
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2,5 V
Switching Output / Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Teach Mode	NT,MT
Mechanical Data	
Adjustment	Teach-In
Housing	Stainless Steel
Full Encapsulation	yes
Degree of Protection	IP 67
Connection	M12 x 1
Protective Insulation, Rated Voltage	50 V
Contamination Output	●
PNP NO/NC switchable	●
Connection Diagram No.	154
Control Panel No.	D7
Suitable Plug No.	2

These through beam sensors are well suited for use in aggressive industrial environments. The sensor can be checked for correct functioning via the test input. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments.

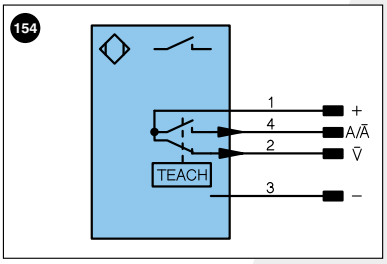


CE 50 V

All dimensions in mm (1 mm = 0.03937 Inch)



1 = Receiver Diode



Legend

+	Power supply "+"
−	Power supply "0V"
~	Power supply (AC Voltage)
A	Switching output (1,2,3...) / NO
Ā	Switching output (1,2,3...) / NC
V	Contamination / Error output (NO)
V̄	Contamination / Error output (NC)
E	Input (analog or digital)
T	Teach input
Z	Time delay (activation)
S	Shielding
RxD	RS-232 receive path
TxD	RS-232 send path
RDY	Ready
GND	Ground
CL	Clock
E/A	Output/Input programmable

U	Test input
Ū	Test input inverted
W	Trigger input
O	Analog output (1,2,3,...)
O−	Ground for the analog output
BZ	Block discharge
AMV	Valve output
a	Valve control output "+"
b	Valve control output "0V"
SY	Synchronization
E+	Receiver-Line
S+	Emitter-Line
⏚	Grounding
SnR	Switching Distance Reduction
USBD+	USB data +
USBD−	USB data -
Bus	Interfaces-Bus A(+)/B(-)
La	Emitted light disengageable

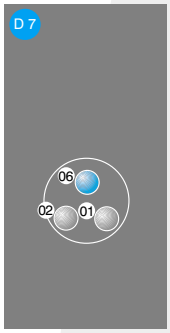
Wire colors according to DIN IEC 757

BK	black
BN	brown
RD	red
OG	orange
YE	yellow
GN	green
BU	blue
VT	violet
GY	grey
WH	white
PK	pink
GNYE	green yellow

Accessories

Additional Lens LA7
Mounting Bracket W18 / W18L

Ctrl.Panel



01 = Switching Status Indicator
02 = Contamination Warning
06 = Teach Button