

**OH90C403****OPTICAL SENSORS • FRAME LIGHT BARRIERS**

Frame and ring light barriers operate according to the principle of a through-beam sensor. Within the housing there is a variety of transmitter and receiver elements that form a light curtain and thus detect various objects. Application examples for these systems are ejection control of presses, presence monitoring or length measurements of wires or tubes.

**MECHANICAL DATA**

Active zone height	280 mm
Active zone width	90 mm
Ambient temperature	0 °C ... 60 °C
Degree of protection (IP)	IP65
Housing design	Cuboid
Housing design	Frame-shaped
Housing material	Aluminium
Reflector included in the scope of delivery	No
Sensor height	115 mm
Sensor length	20 mm
Sensor width	340 mm

**ELECTRICAL DATA**

Analogue output 0 mA ... 20 mA	No
Analogue output 0 V ... 10 V	No
Analogue output -10 V ... +10 V	No
Analogue output 4 mA ... 20 mA	No
Max. output current	200 mA
No-load current	150 mA
Number of pins	8
Rated control supply voltage $U_s$ at DC	24 V ... 24 V
Reaction time	0.2 ms
Response/decay time	0.2 ms
Reverse polarity protection	Yes
Setting procedure	Manual adjustment
Short-circuit-proof	Yes
Suitable for safety functions	No
Type of electrical connection	Connector M12
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage type	DC

**ELECTRICAL DATA**

With communication interface, analog	No
With communication interface, AS-Interface	No
With communication interface, CANOpen	No
With communication interface, DeviceNet	No
With communication interface, Ethernet	No
With communication interface, INTERBUS	No
With communication interface, PROFIBUS	No
With communication interface, RS-232	No
With communication interface, RS-422	No
With communication interface, RS-485	No
With communication interface, SSD	No
With communication interface, SSI	No
With LED display	Yes
With monitoring function of downstream devices	No
With other analog output	No
With time function	No

**OPTICAL DATA**

Light source	Polarity free red light
Min. object size	0.3 mm
Resolution, static	0.3

**OTHER DATA**

Version	Static
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**DIMENSIONAL DRAWING**

**INSTALLATION**



Mounting / Installation may only be carried out by a qualified electrician!

**DISPOSAL**



**SAFETY WARNINGS**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!