

## OYSI0098

•

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

Ambient temperature	-20 °C ... 60 °C
Degree of protection (IP)	IP67
Housing coating	Anodised
Housing material	Aluminium
Protected field height	80 mm
Sensor height	106 mm
Sensor length	25 mm
Sensor width	20 mm

### ELECTRICAL DATA

Cascadable	No
Clock control possible	No
Equipment protection class	Protection class 3
Max. output current	200 mA
No-load current, receiver	100 mA
No-load current, transmitter	100 mA
Number of pins, receiver	8
Number of pins, transmitter	5
Number of semiconductor outputs with signaling function	2
Override possible	No
Rated control supply voltage $U_s$ at DC	12 V ... 32 V
Reaction time	0.5 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Suppression possible	No
Type of electrical connection	Connector M9
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP/NPN
Voltage type	DC

**ELECTRICAL DATA**

With monitoring function of downstream devices	No
With muting function	No
With restart lock	No

**OPTICAL DATA**

Protected field range	0.8 m
Resolution of the light curtain	0.6 mm

**OTHER DATA**

Explosion protection category for dust	None
Explosion protection category for gas	None
Reduced resolution	No
Scope of delivery of the one-way system	Transmitter and receiver
With beam coding	No

**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!