IPF ELECTRONIC

DATA SHEET OY410025 • Subject to alteration! Version: 03.05.2019

OY410025

OPTICAL SENSORS • LIGHT BARIERS

The multi-function light barriers are through-beam sensors where multiple beams are integrated. In case of interruption of only one beam, the switching output of the receiver changes its state. The devices are used where standard through-beam sensors with only one beam are not sufficient. There are devices with beam spacing of 20, 40, 60 or 120mm and different heights available. An integrated fuzzy logic controls the transmitting power automatically.

MECHANICAL DATA

Ambient temperature	-5 °C ... 50 °C
Cable length	0.3 m
Cover material	Plastic
Degree of protection (IP)	IP65
Housing material	Aluminium
Material of optical surface	PMMA
Number of wires	4
Protected field height	1418 mm
Sensor height	1460 mm
Sensor length	20.5 mm
Sensor width	40 mm

ELECTRICAL DATA

Cascadable	No
Clock control possible	No
No-load current, receiver	100 mA
No-load current, transmitter	100 mA
Number of pins	4
Number of pins, receiver	4
Number of pins, transmitter	4
Override possible	No
Rated control supply voltage Us at DC	21.6 V ... 26.4 V
Reaction time	9 ms
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Suitable for safety functions	No
Suppression possible	No
Type of analog output	0 V ... 10 V / 4 mA ... 20 mA
Type of electrical connection	Cable with connector
Voltage type	DC
With monitoring function of downstream devices	No

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ELECTRICAL DATA

With muting function	No
With restart lock	No

OPTICAL DATA

Min. distance	0.3 m
Protected field range	4 m
Resolution of the light curtain	12 mm

OTHER DATA

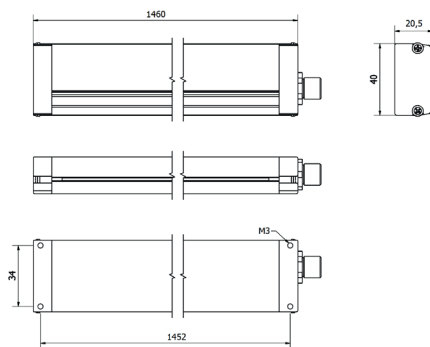| Explosion protection category for dust	None
Explosion protection category for gas	None
Reduced resolution	No
Scope of delivery of the one-way system	Transmitter and receiver
With beam coding	No

CONNECTION
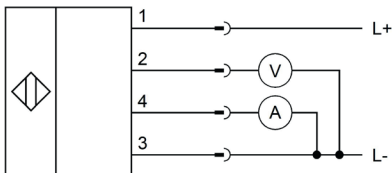
Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)
Functions: 1 = L+, 2 = 0-10V, 3 = L-, 4 = 4-20mA

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!

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