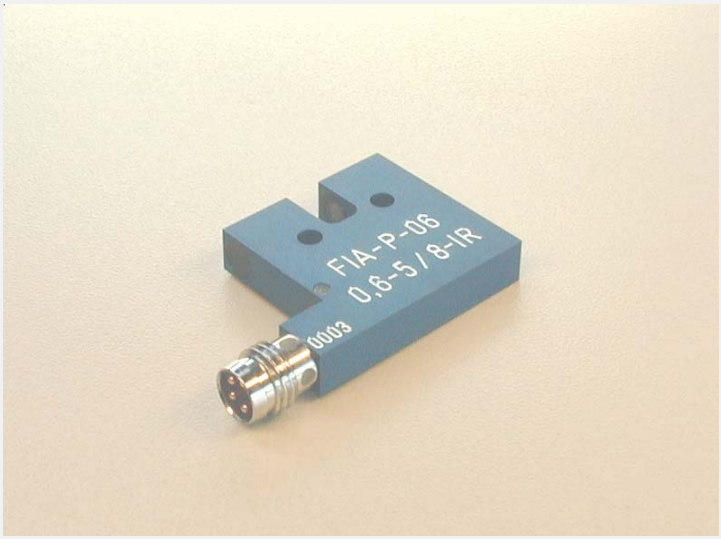
FIA Series

FIA-P-06-0.6-5/8-IR

- Integrated electronics
- Infrared light beam (IR LED 905 nm)
- Circular aperture (Ø 0.6 mm)
- Switching state indicator (yellow LED)
- Switching frequency typ. 1 kHz
- Scratch-resistant optics
- 4-pole M8-connector
- Sturdy aluminum housing
- Compact design



Design

Product name:

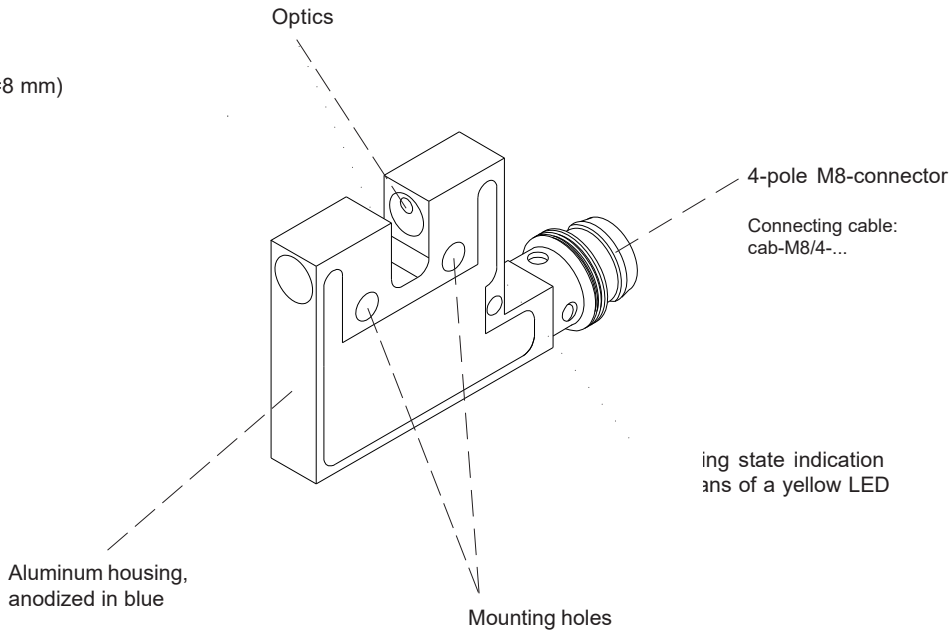
FIA-P-06-0.6-5/8-IR

Accessories: (cf. page 4)

JP-3 (jam plate)

Aperture:
0.6 (circular aperture Ø 0.6 mm)

Fork size:
5/8 (fork width A=5 mm, fork depth B=8 mm)

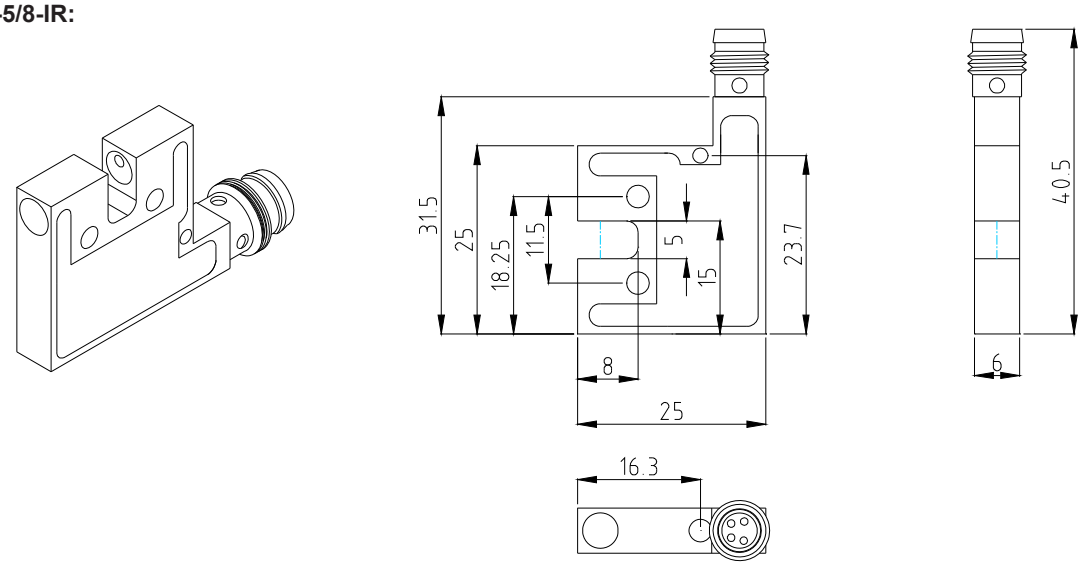


Technical Data

Type	**FIA-P-06-0.6-5/8-IR**
Transmitter	IR LED: 905 nm
Min. detectable object	typ. 0.3 mm
Reproducibility	typ. 0.05 mm
Optical filter	Daylight block filter
Voltage supply	+24VDC (± 10%), reverse polarity protected
Ambient light	up to 5000 Lux
Current consumption	typ. 30 mA
Aperture size	Circular aperture Ø 0.6 mm
Switching outputs (2x)	Q = pnp bright-switching (pnp n.c.) / npn dark-switching (npn n.o.) Qinv = pnp dark-switching (pnp n.o.) / npn bright-switching (npn n.c.) 100mA, short-circuit protection
Enclosure rating	IP67
Operating temperature range	-20°C ... +50°C
Storage temperature range	-20°C ... +85°C
Housing	Aluminum, anodized in blue
Dimensions	see page 3
Connector type	4-pole M8-connector
EMC test acc. to	DIN EN 60947-5-2 CE
Switching frequency	typ. 1 kHz
Switching state indicator	by means of a yellow LED integrated in the sensor housing: LED on = sensor free LED off = sensor covered

Dimensions

FIA-P-06-0.6-5/8-IR:



(Dimensions in mm)

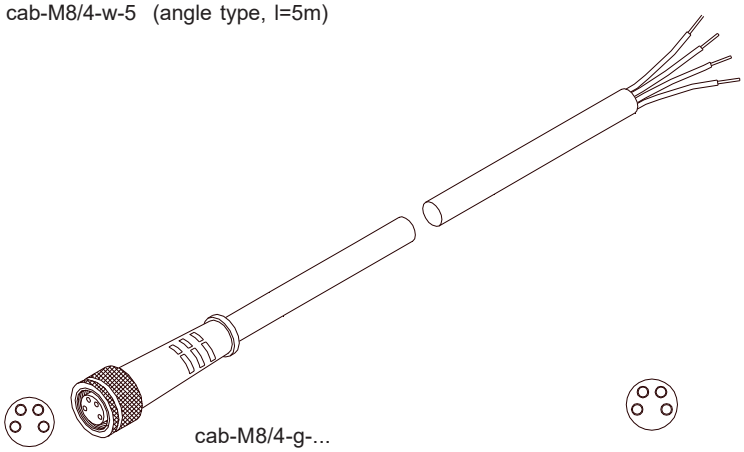
Connector Assignment

Connector assignment FIA-P-06-5/8-IR:
(4-pole M8-connector)

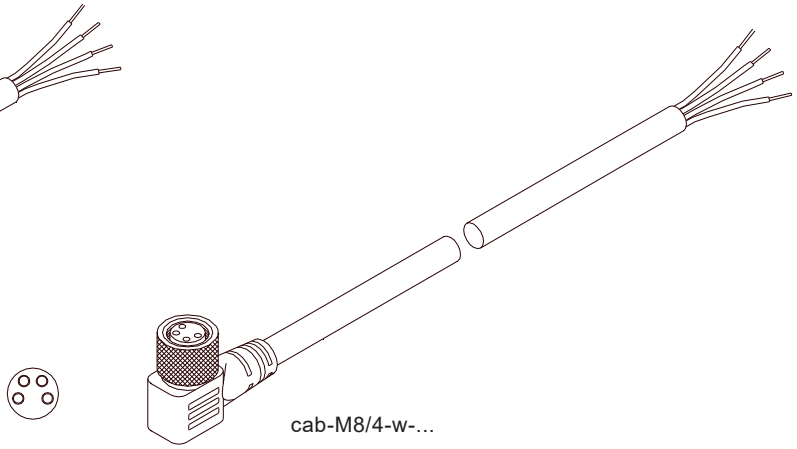
Pin:	Belegung:
1	+Ub (+24VDC ± 10%)
2	Qinv (pnp dark-switching, npn bright-switching)
3	GND (0V)
4	Q (pnp bright-switching, npn dark-switching)

Available connecting cables:

cab-M8/4-g-2 (l=2m)
cab-M8/4-g-5 (ll=5m)
cab-M8/4-w-2 (ange type, l=2m)
cab-M8/4-w-5 (angle type, l=5m)



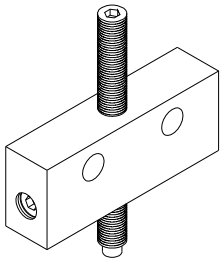
cab-M8/4-g-...

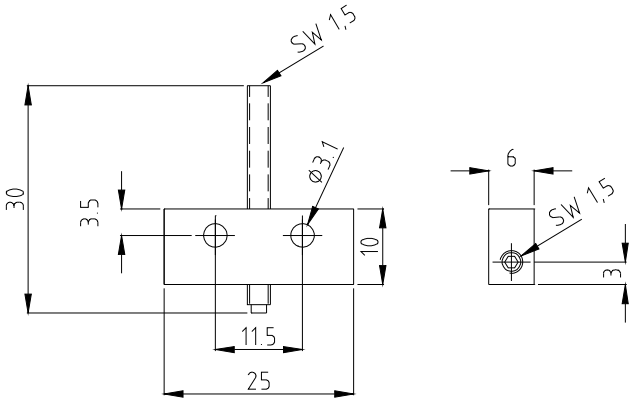


cab-M8/4-w-...

Accessories

Jam plate JP-3:
(please order separately)





(All dimensions in mm)