

FIA Series

► FIA-A-40/35-(...)-MC

- Integrated electronics
- High sensitivity
- High band width analog signal (12-bit DAC resolution)
- Infrared light beam (850 nm)
- Various rectangular apertures available
- Alignment indication (yellow LED)
- Operation indication (green LED)
- Scratch-resistant optics
- Sturdy aluminum housing



Design

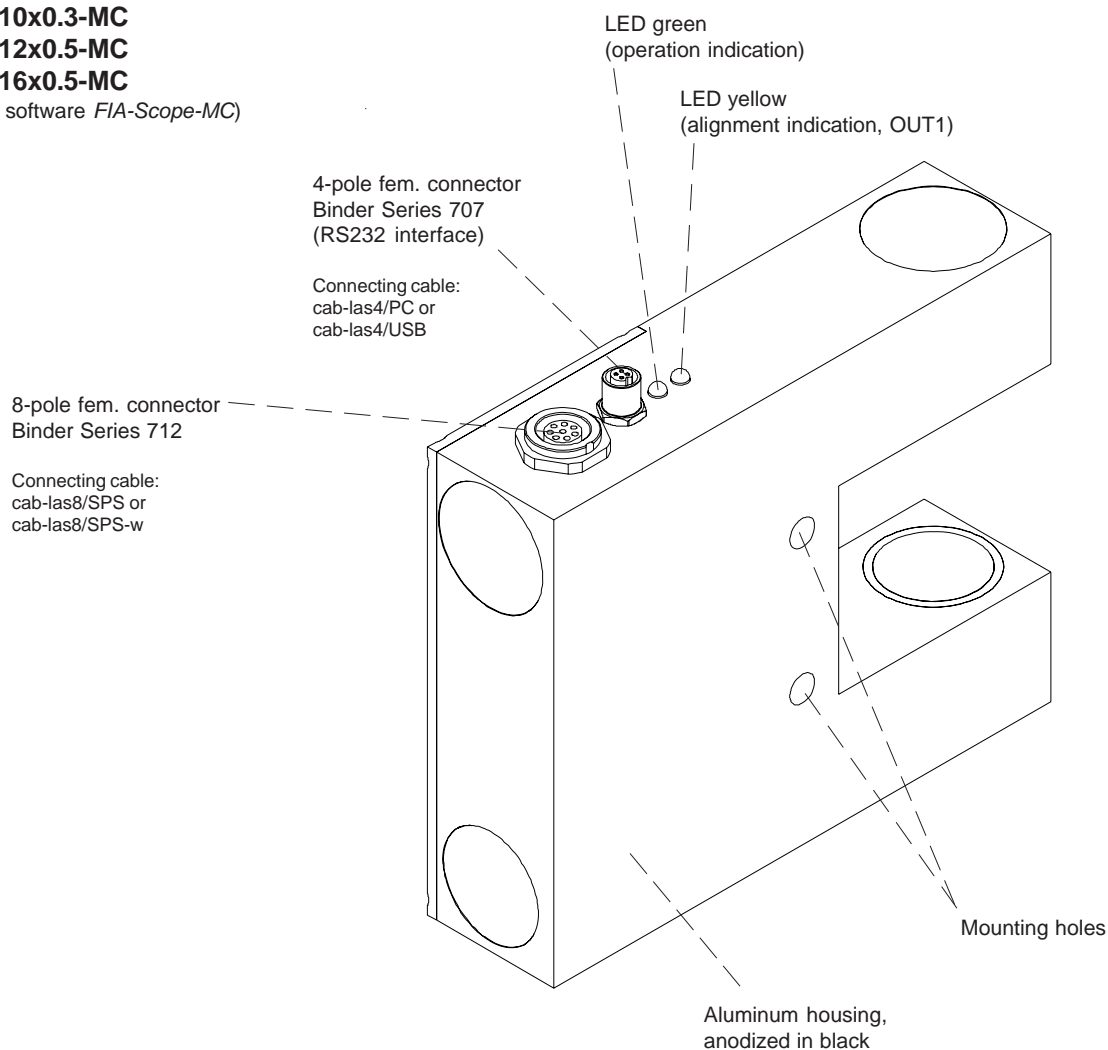
Product name:

FIA-A-40/35-10x0.3-MC

FIA-A-40/35-12x0.5-MC

FIA-A-40/35-16x0.5-MC

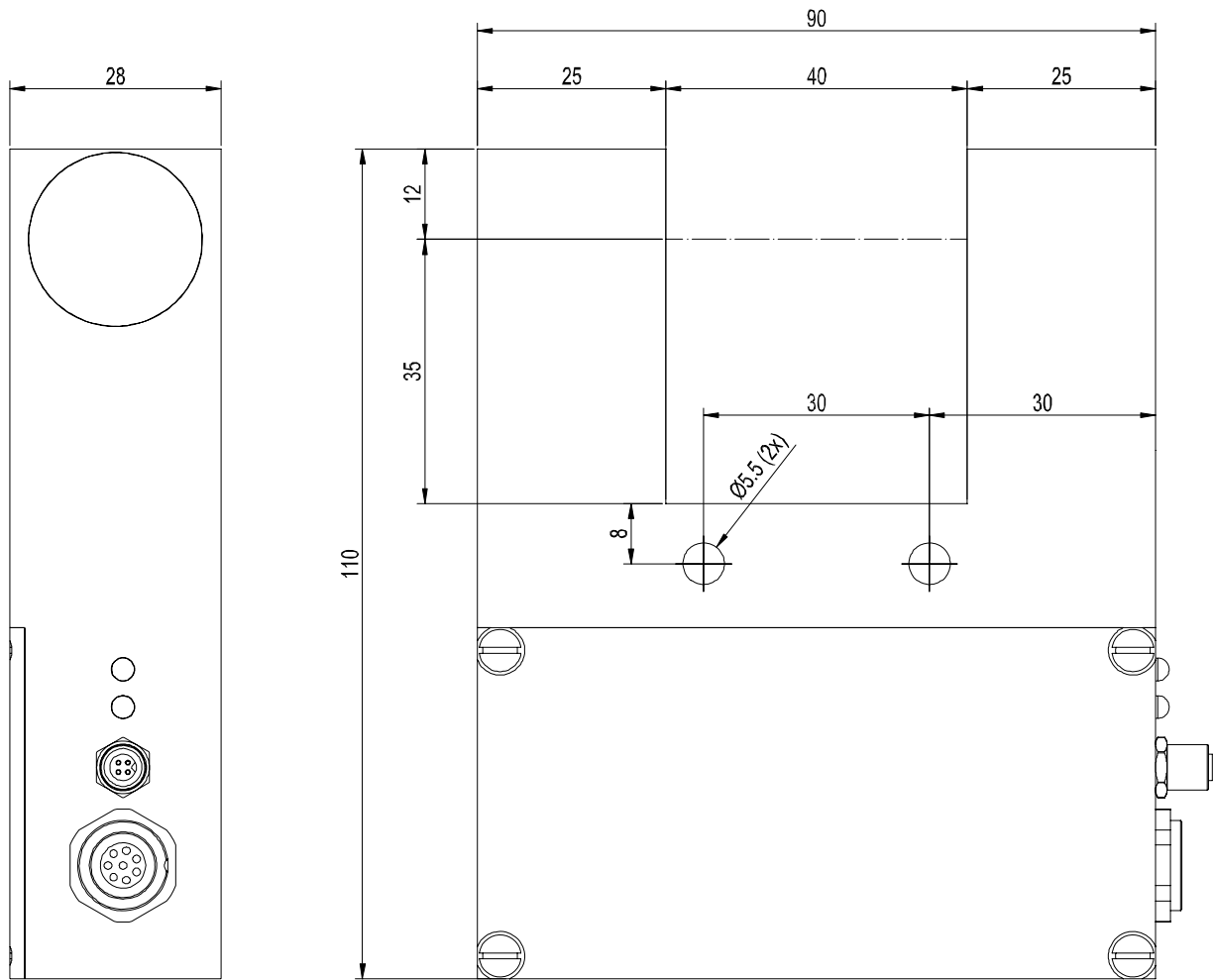
(incl. Windows® software *FIA-Scope-MC*)




Technical Data

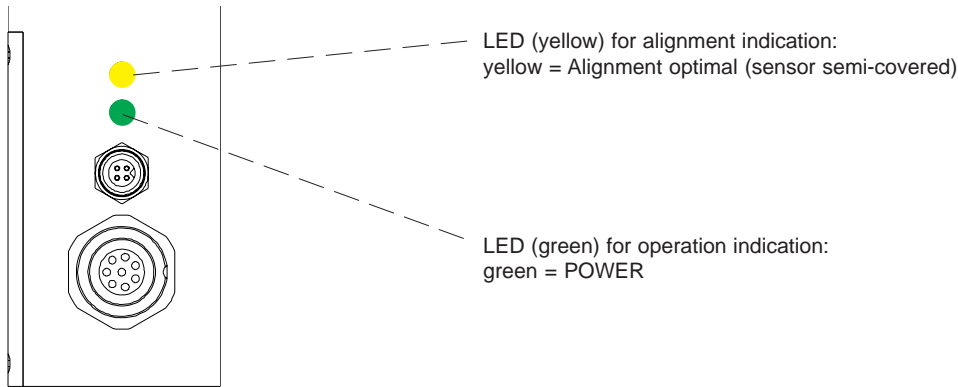
Model	FIA-A-40/35-(...)-MC
Transmitter	IR-LED: 850 nm
Reproducibility	typ. 0,01 mm (depends on the object measured)
Optical filter	Day light block filter (RG830), interference filter
Voltage supply	+24VDC (± 10%)
Ambient light	up to 5000 Lux
Current consumption	typ. 150 mA
Size of aperture	Available rectangular apertures: 10 mm x 0.3 mm, 12 mm x 0.5 mm, or 16 mm x 0.5 mm
Switching output	Pin 6 (OUT1): Polarity adjustable under Windows®: Qinv (pnp dark-switching = pnp n.o., npn bright-switching = npn n.c.) or Q (pnp bright-switching = pnp n.c., npn dark-switching = npn n.o.) 100mA, short-circuit protected
Analog output	0 ... +10V (typ. 15 kHz)
Band width analog signal	typ. 15 kHz
Enclosure rating	IP64
Operating temperature range	-20°C ... +60°C
Storage temperature range	-20°C ... +85°C
Housing material	Aluminum, anodized in black
Dimensions	LxWxH ca. 110 mm x 90 mm x 28 mm (without connector flanges)
Type of connector	8-pole female connector type Binder Series 712 (connection to PLC) 4-pole female connector type Binder Series 707 (connection to PC)
EMC test acc. to	DIN EN 60947-5-2
Alignment indication (OUT1)	yellow LED (yellow = alignment optimal, sensor semi-covered)
Operating indication	green LED (green = POWER)
Min. detectable object	typ. 0,01 mm

Dimensions



(All dimensions in mm)

LED Display



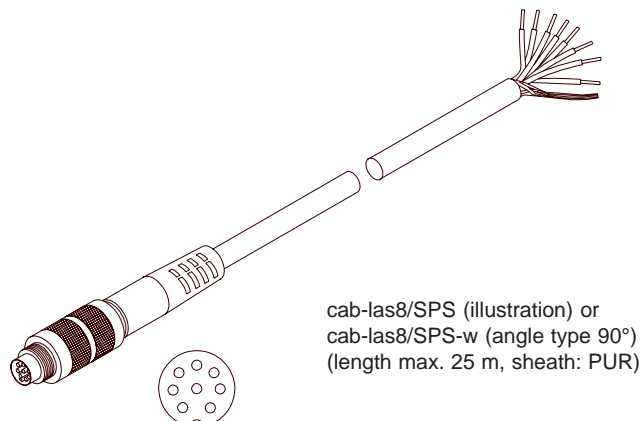


Connector Assignment

Connection to PLC: 8-pole fem. connector Binder Series 712

Pin:	Color:	Assignment:
1	white	GND (0V)
2	brown	+24VDC ($\pm 10\%$)
3	green	IN0
4	yellow	IN1 (n.c.)
5	grey	OUT0 (n.c.)
6	pink	OUT1 (alignment output)
7	blue	I-OUT (0 ... 20mA)
8	red	ANA-OUT (0 ... +10V)

Connecting cable:
cab-las8/SPS-(length) or
cab-las8/SPS-w-(length) (angle type 90°)
(standard length 2m)

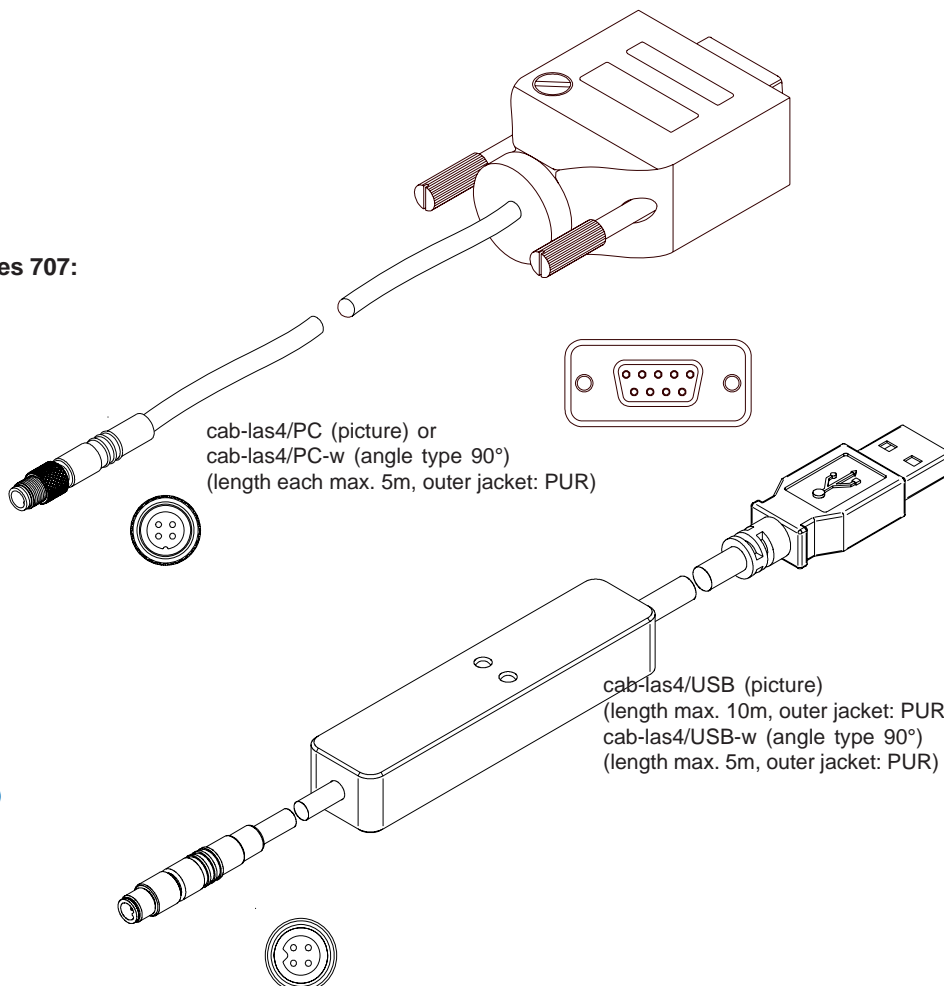


cab-las8/SPS (illustration) or
cab-las8/SPS-w (angle type 90°)
(length max. 25 m, sheath: PUR)

Connection to PC: 4-pole female connector Binder Series 707:

Pin:	Assignment:
1	+24VDC (+Ub, OUT)
2	GND (0V)
3	Rx0
4	Tx0

Connecting cable:
cab-las4/PC-(length) or
cab-las4/PC-w-(length) (angle type 90°)
(standard length 2m)



cab-las4/PC (picture) or
cab-las4/PC-w (angle type 90°)
(length each max. 5m, outer jacket: PUR)

alternatively: Connection via USB interface

Connecting cable (incl. driver software):
cab-las4/USB-(length)
cab-las4/USB-w-(length) (angle type 90°)
(standard length 2m)

cab-las4/USB (picture)
(length max. 10m, outer jacket: PUR) or
cab-las4/USB-w (angle type 90°)
(length max. 5m, outer jacket: PUR)