



Fork light barrier

Series FA 95 S

- **High accuracy**
- **Fork width** 2 - 225 mm
- **Min. object size** Ø 0.6 mm
- **Supply** 10-30 VDC
- **Switching output** PNP or NPN

Principal features:

- Fork width: **2-225 mm**
- Power supply: **10-30 VDC**
- Simple and accurate adjustment with 25-spin potentiometer
- Switching state display
- Light / dark switching
- Rigid aluminium housing
- PNP/NPN output
- M8 connecting plug, 4-pin
- CE

Typical applications:

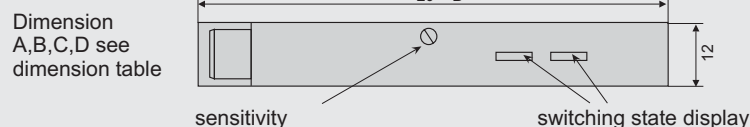
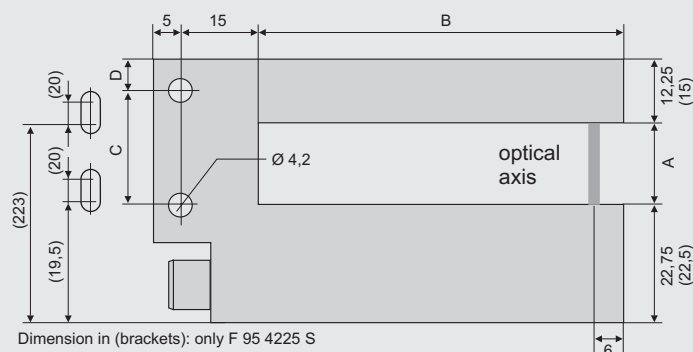
- Label detection on a film
- Power feed control
- Drill fracture detection
- Feed control
- Detection of overlapping
- Marker detection on transparent layers
- Fine positioning
- Crack detection
- Counting of small objects

Advantages:

- Compact design
- High reproducibility
- Simple mounting
- High freedom from interference

Dimensions

All dimensions in mm

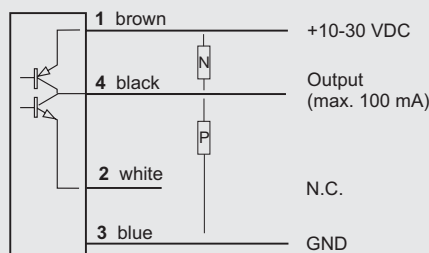


Dimensions (in mm)

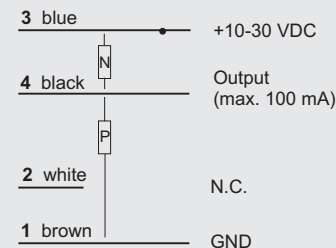
Type	A	B	C	D
F 95 3002 S (continuous)	2	40	14	6,25
F 95 4002 S (pulsed)	2	40	14	6,25
F 95 4015 S (pulsed)	15	40	27	6,25
F 95 4030 S (pulsed)	30	40	42	6,25
F 95 4050 S (pulsed)	50	57	40	17,25
F 95 4080 S (pulsed)	80	57	70	17,25
F 95 4120 S (pulsed)	120	57	110	17,25
F 95 4225 S (pulsed)	225	60	elliptical hole ???	

Wiring connections

Dark switching



Light switching



Technical data

		pulsed	continuous (only F95 3992 S)
Power supply	Voltage	10 - 30 VDC	
	Res. ripple	≤ 10% within spec. limits	
	Consumption	~ 30 mA	~ 40 mA
Response time	ton or toff	≤ 1 ms	≤ 30 μs
	Switching frequency	≤ 500 Hz	≤ 10 kHz
Output	Output current	max. 100 mA	
	Residual voltage at 100 mA	≤ 2 V	
	Residual voltage at 10 mA	≤ 1 V	
Emmitter	LED	infrared	
	Modulation frequency	7,7, kHz	continuous
Temperature	Operating	-20 to 60 °C	
	Storage	- 20 to 80 °C	
External light immunity	Artificial light	≤ 3000 lux	≤ 3000 lux
	Daylight	≤ 10000 lux	≤ 3000 lux
Protections	Supply	inverse polarity protection	
	Switching output	permanent short circuit and overload protection	
	Degree of protection	IP 65	
Housing	Material	Aluminium, blue	

Ordering information

Fork light barrier (M8 plug version)

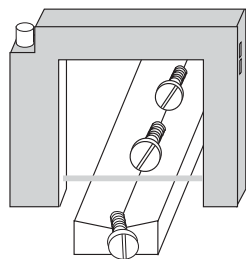
Type	Part No.
F 95 3002 S (continuous)	10450108
F 95 4002 S (pulsed)	10451262
F 95 4015 S (pulsed)	10450111
F 95 4030 S (pulsed)	10450112
F 95 4050 S (pulsed)	10450113
F 95 4080 S (pulsed)	10450109
F 95 4120 S (pulsed)	10450110
F 95 4225 S (pulsed)	10451973

Cable with M8 plug

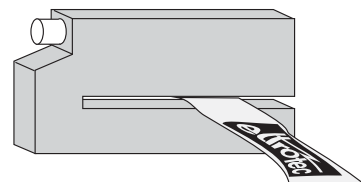
	Part No.
Type C2 axial, 2 m length	(e.g. F 95 3002 C2 S) 11261135
Type C5 axial, 5 m length	11261136

Cable with angular plug on request

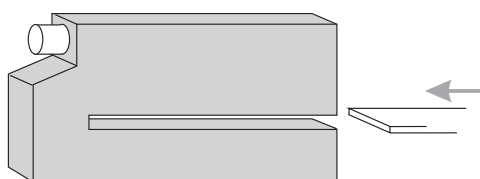
Applications



Counting of small parts



Label detection
Crack detection
Marker detection on transparent layers



Fine positioning, power feed control

Presented by: