

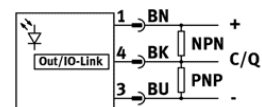
# Fork light barrier

## SOOF-M-FL-SM-C120-P

Part number: 553559

FESTO

Stable metal housing.



## Data sheet

Feature	Value
Authorization	RCM Mark c UL us - Listed (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Materials note	Conforms to RoHS
Measured variable	Position
Measuring principle	Optoelectronic
Measurement method	Fork light barrier
Type of light	Red
Minimal object diameter	0.5 mm
Note on min. object diameter	0.5 mm with standard mode 0.3 mm with high resolution mode 1.5 mm with power mode 0.5 mm with speed mode
Ambient temperature	-25 ... 60 °C
Repetition accuracy	0.02 mm
Switch output	Push-pull NPN PNP
Switching element function	Switchable
Hysteresis	≤ 0.1 mm
Max. switching frequency	5,000 Hz
Note on switching frequency	5000 Hz with standard mode 1500 Hz with high resolution mode 250 Hz with power mode 8000 Hz with speed mode
Max. output current	100 mA
Timer function	Via IO-Link®
Short circuit strength	Pulsing
Protocol	IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, profile	Smart sensor profile
IO-Link, function classes	Binary Data Channels (BDC) Process Data Variable (PDV) Identification diagnosis Teach channel
IO-Link, communication mode	COM2 (38,4 kBaud)
IO-Link, SIO mode support	Yes
IO-Link, port type	A
IO-Link, process data width OUT	0 Byte
IO-Link, process data width IN	2 Byte

<b>Feature</b>	<b>Value</b>
IO-Link, process data content IN	1 bit BDC (Switching Signal) 1 bit BDC (Stability) 12 bit PDV (Signal Level)
IO-Link, Service data contents IN	16 bit Maximum Signal Level 16 bit Minimum Signal Level 16 bit Temperature 32 bit Switching Counter 8 bit Teach-In Quality
IO-Link, minimum cycle time	2,3 ms
IO-Link, data memory required	73 Byte
Operating voltage range DC	10 ... 30 V
Residual ripple	± 5 %
Idle current	30 mA
Polarity protected	for all electrical connections
Electrical connection	3-pin M8x1 Plug
Size	Clevis 120x60 mm
Fork gap	120 mm
Product weight	244 g
Material housing	Die-cast zinc, coated
Operating status display	Yellow LED
Setting options	IO-Link Potentiometer
Protection class	IP67
Insulation voltage	500 V
Surge strength	0.8 kV
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS conformity	VDMA24364 zone III
Degree of contamination	3