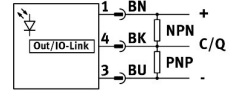


# Fork light barrier SOOF-M-FL-SM-C50-P

Part number: 553555

FESTO



General operating condition

## Data sheet

Feature	Value
Symbol	00995956
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Note on materials	RoHS-compliant
Measured variable	Position
Measuring principle	Optoelectronic
Method of measurement	Fork light barrier
Type of light	Red
Minimum object diameter	0.3 mm
Note on min. object diameter	0.3 mm with standard mode 0.2 mm with high resolution mode 1.0 mm with power mode 0.3 mm with speed mode
Ambient temperature	-25 °C ... 60 °C
Repetition accuracy	0.02 mm
Switching output	Push-pull NPN PNP
Switching element function	Switchable
Hysteresis	≤0.1 mm
Max. switching frequency	5000 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 protection	Pulsed
Protocol	IO-Link®
IO-Link®, protocol version	Device V 1.1
IO-Link®, profile	Smart sensor profile
IO-Link®, function classes	Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link®, communication mode	COM2 (38,4 kBd)

Feature	Value
IO-Link®, SIO mode support	Yes
IO-Link®, port class	A
IO-Link®, process data width OUT	0 Byte
IO-Link®, process data width IN	2 Byte
IO-Link®, process data content IN	1 bit BDC (stability) 1 bit BDC (switching signal) 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
DC operating voltage range	10 V ... 30 V
Residual ripple	± 5 %
Idle current	30 mA
Reverse polarity protection	for all electrical connections
Electrical connection	M8x1 Plug
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	not rotatable
Electrical connection 1, type of mounting	Compatible with snap-locking Compatible with rotatable screw-type lock
Size	Clevis 50x55 mm
Fork gap	50 mm
Product weight	96 g
Housing material	Die-cast metal, coated
Switching status indication	LED yellow
Setting options	IO-Link® Potentiometer
Degree of protection	IP67
Insulation voltage	500 V
Surge resistance	0.8 kV
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Contamination level	3