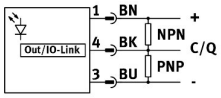
Fork light barrier
SOOF-M-FL-SM-C80-P

Part number: 553557





Data sheet

Feature	Value
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Note on materials	RoHS-compliant
Measured variable	Position
Measuring principle	Optoelectronic
Measurement method	Fork light barrier
Type of light	Red
Min. 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 current rating	Pulsed
Protocol	IO-Link®
IO-Link, Protocol version	Device V 1.1
IO-Link, Profile	Smart sensor profile

Feature	Value
IO-Link, Function classes	Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link, communication mode	COM2 (38.4 kBaud)
IO-Link, SIO-Mode support	Yes
IO-Link, Port class	A
IO-Link, Process data length OUT	0 bytes
IO-Link, Process data length IN	2 bytes
IO-Link, Process data content IN	1 bit BDC (stability) 1 bit BDC (switching signal) 12 bit PDV (signal level)
IO-Link, Service data 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, Min. cycle time	2.3 ms
IO-Link, Data storage required	73 Byte
Operational voltage range DC	10 V...30 V
Residual ripple	± 5%
No-load supply current	30 mA
Reverse polarity protection	For all electrical connections
Electrical connection	3-pin M8x1 Plugs
Electrical connection 1, connection type	Plugs
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Snap-locking Screw-type lock Not rotatable
Electrical connection 1, compatible type of mounting	Compatible with latching lock Compatible with rotatable screw-type lock
Size	Fork 80x55 mm
Fork gap	80 mm
Product weight	118 g
Material housing	Die-cast zinc, coated
Switching status indication	Yellow LED
Setting options	IO-Link® Potentiometer
Degree of protection	IP67
Insulation voltage	500 V
Immunity to surge	0.8 kV
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Pollution degree	3