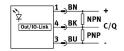
Fork light barrier SOOF-M-FL-SM-C30-P

Part number: 553553







Data sheet

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 Notis instructions Note on materials Rests-compliant Measured variable Position Measuring principle Optoelectronic Measurement method Fork light barrier Type of light Red Min. object diameter O.3 mm Note on min. object diameter O.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 °C60 °C Repetition accuracy O.22 mm Switching output Push-pull NPN PNP Switching element function Switching frequency Sooo Hz Note on switching frequency Sooo Hz Note on switching frequency To ON Hz Note on switching frequency Note on switching frequency Max. output current Timer function Via IO-Link® Protocol IO-Link, Protocol version Device V 1.1	Feature	Value
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 Note on min. object diameter Note on min. object diameter O.3 mm Note on min. object diameter O.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 °C60 °C Repetition accuracy O.02 mm Switching output Push-pull NPN PNP Switching element function Switching element function Switching frequency Note on switching frequency Soo0 Hz Note on switching frequency Note on switching frequency Too0 Hz with high resolution mode 1500 Hz with high resolution mode 250 Hz with power mode 8000 Hz with high resolution mode 250 Hz with power mode 8000 Hz with high resolution mode 250 Hz with power mode 8000 Hz with speed mode Max. output current Timer function Max. output current rating Pulsed Protocol IO-Link® Protocol IO-Link® Protocol Vi.1	Approval	
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Measured variable Measuring principle Optoelectronic Measurement method Fork light barrier Type of light Red Min. object diameter Note on min. object diameter O.3 mm Note on min. object diameter O.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 °C60 °C Repetition accuracy O.02 mm Switching output Push-pull NPN NPN PNP Switching element function Switchable Hysteresis O.1 mm Max. switching frequency Soo0 Hz Soo0 Hz Soo0 Hz With standard mode 1500 Hz with standard mode 250 Hz with power mode 8000 Hz with speed mode Max. output current 100 mA Timer function Short circuit current rating Pulsed Protocol IO-Link® Povice V 1.1	UKCA marking (see declaration of conformity)	
Measuring principle Measurement method Fork light barrier Type of light Red Min. object diameter O.3 mm Note on min. object diameter O.3 mm with standard mode 0.2 mm with high resolution mode 1.0 mm with speed mode Ambient temperature 2.5 °C60 °C Repetition accuracy O.02 mm Switching output Push-pull NPN PNP Switching element function Switching frequency Soon Hz Note on switching frequency Note on switching frequency Soon Hz With speed mode Max. output current 100 mA Timer function Via IO-Link® Frotocol IO-Link, Protocol version Device V 1.1	Note on materials	RoHS-compliant
Measurement method Type of light Red Min. object diameter O.3 mm Note on min. object diameter O.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 °C60 °C Repetition accuracy O.02 mm Switching output Push-pull NPN PNP Switching element function Switchable Hysteresis O.1 mm Max. switching frequency Note on switching frequency Soo0 Hz Note on switching frequency Too Hz with standard mode 1500 Hz with speed mode Max. output current 100 mA Timer function Via IO-Link® Short circuit current rating Protocol IO-Link® Protocol IO-Link® Device V 1.1	Measured variable	Position
Type of light Min. object diameter O.3 mm Note on min. object diameter O.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 °C60 °C Repetition accuracy O.02 mm Switching output Push-pull NPN PNP Switching element function Switchable Hysteresis O.1 mm Max. switching frequency Sooo Hz Note on switching frequency Note on switching frequency Max. output current 100 mA Timer function Via IO-Link® Short circuit current rating Protocol IO-Link® Protocol version O.3 mm with standard mode 1.0 mm Switchable 1.0 mm Max. switching frequency Sooo Hz With power mode 8000 Hz with speed mode Via IO-Link® Fortocol IO-Link® Device V 1.1	Measuring principle	Optoelectronic
Min. object diameter Note on min. object diameter Note on min. object diameter O.3 mm with standard mode O.2 mm with high resolution mode 1.0 mm with power mode O.3 mm with speed mode Ambient temperature -25 °C60 °C Repetition accuracy O.02 mm Switching output Push-pull NPN PNP Switching element function Switchable Hysteresis O.1 mm Max. switching frequency Sooo Hz Note on switching frequency Sooo Hz Sooo Hz with standard mode 1500 Hz with standard 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, Protocol version Device V 1.1	Measurement method	Fork light barrier
Note on min. object diameter 0.3 mm with standard mode 0.2 mm with power mode 0.3 mm with speed mode 0.4 mm 0.5 mm 0.6 mm 0.7 mm 0.7 mm 0.8 mm 0.9 mm	Type of light	Red
Ambient temperature -25 °C60 °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	Min. object diameter	0.3 mm
Repetition accuracy Switching output Push-pull NPN PNP Switching element function Switchable Hysteresis 0.1 mm Max. switching frequency Sooo Hz Note on switching frequency Note on switching frequency Max. output current 100 mA Timer function Via IO-Link® Protocol IO-Link, Protocol version O.02 mm O.02 mm Push-pull NPN PNP Push-pull NPN PNP PNP Switchable 5witchable 1o 1 mm 1o mm 1o mA Timer function Via IO-Link® 1o Link® 1o Link® 1o Link® 1o Link® 1o Link® 1o Link®	Note on min. object diameter	0.2 mm with high resolution mode1.0 mm with power mode
Switching output Push-pull NPN PNP Switchable Hysteresis O.1 mm Max. switching frequency Note on switching frequency Note on switching frequency Max. output current Timer function Switchable 100 MA Via IO-Link® Povice V 1.1	Ambient temperature	-25 °C60 °C
NPN PNP 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® Device V 1.1	Repetition accuracy	0.02 mm
Hysteresis O.1 mm Max. switching frequency Note on switching frequency Note on switching frequency So00 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® Device V 1.1	Switching output	NPN
Max. switching frequency Note on switching frequency Sound 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, Protocol version Device V 1.1	Switching element function	Switchable
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® IO-Link®	Hysteresis	0.1 mm
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® Device V 1.1	Max. switching frequency	5000 Hz
Timer function Via IO-Link® Short circuit current rating Pulsed Protocol IO-Link, Protocol version Device V 1.1	Note on switching frequency	1500 Hz with high resolution mode 250 Hz with power mode
Short circuit current rating Pulsed Protocol IO-Link® IO-Link, Protocol version Device V 1.1	Max. output current	100 mA
Protocol IO-Link® IO-Link, Protocol version Device V 1.1	Timer function	Via IO-Link®
IO-Link, Protocol version Device V 1.1	Short circuit current rating	Pulsed
	Protocol	IO-Link®
IO-Link, Profile Smart sensor profile	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 V30 V
Residual ripple	± 5%
No-load supply current	30 mA
Reverse polarity protection	For all electrical connections
Electrical connection	3-pin M8x1 Plugs
Size	Fork 30x35 mm
Fork gap	30 mm
Product weight	68 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