

Fork light barriers SOOF

Product range overview

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- Transmitter and receiver in one compact housing
- Fork gap 30 ... 120 mm
- Minimum detectable object diameter 0.5 mm
- Maximum switching frequency 4,000 Hz
- Stable metal housing
- Minimum installation effort

Detailed product information

➔ www.festo.com/catalogue/soof

Product range overview						
Type	Type	Fork gap [mm]	Minimum object diameter [mm]	Max. switching frequency [Hz]	Switching output	➔ Page/Internet
Fork light barrier	SOOF-...-C30	30	0.5	4,000	PNP NPN	3
	SOOF-...-C50	50	0.5	4,000	PNP NPN	
	SOOF-...-C80	80	0.5	4,000	PNP NPN	
	SOOF-...-C120	120	2.0	2,000	PNP NPN	

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Type codes

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		SOOF	-	M	-	FL	-	S	M	-	C50	-	P
Type													
SOOF	Fork light barrier												
Housing material													
M	Metal												
Function													
FL	Fork light barrier												
Switching function													
S	N/O / N/C contacts, reversible												
Setting option													
M	Potentiometer												
Fork gap													
C30	30 mm												
C50	50 mm												
C80	80 mm												
C120	120 mm												
Switching output													
P	PNP												
N	NPN												

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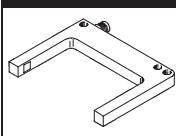
Technical data

General technical data					
Fork gap	[mm]	30	50	80	120
Size	[mm]	Fork 30x35	Fork 50x55	Fork 80x55	Fork 120x60
Minimum object diameter	[mm]	0.5	0.5	0.5	2.0
Repetition accuracy	[mm]	0.02	0.04	0.06	0.06
Hysteresis	[mm]	≤ 0.25			
Light type		Red			
Setting options		Potentiometer			

Electrical data					
Fork gap	[mm]	30	50	80	120
Max. switching frequency	[Hz]	4,000	4,000	4,000	2,000
Operating voltage range	[V DC]	10 ... 35			
Max. output current	[mA]	200			
Electrical connection		Plug M8x1, 3-pin			
Switching element function		Light switching, dark switching (reversible)			
Protection against short circuit		Pulsed			
Protection against polarity reversal		For operating voltage connections			
Protection class		IP67			

Operating and environmental conditions	
Ambient temperature	[°C] -10 ... +60
CE mark (see declaration of conformity)	In accordance with EU EMC directive
Certification	C-UL-US listed (OL)
	C tick

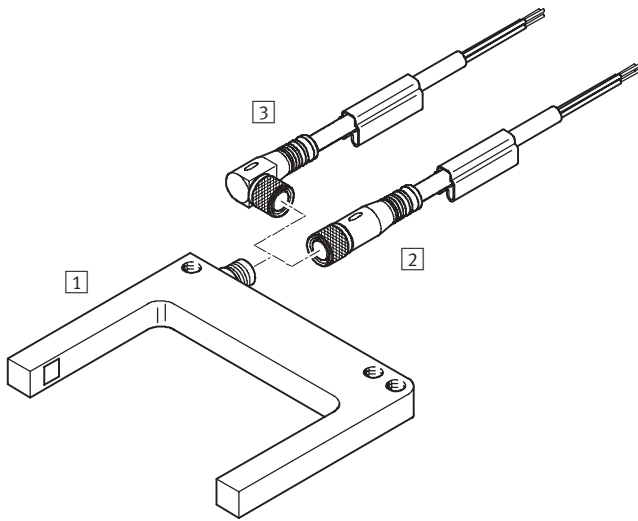
Materials	
Housing	Die-cast zinc, painted
Note on materials	Free of copper and PTFE
	Contains paint wetting impairment substances

Ordering data				
Type	Fork gap [mm]	Switching output	Part No.	Type
	30	PNP	553 553	SOOF-M-FL-SM-C-30-P
		NPN	553 554	SOOF-M-FL-SM-C-30-N
	50	PNP	553 555	SOOF-M-FL-SM-C-50-P
		NPN	553 556	SOOF-M-FL-SM-C-50-N
	80	PNP	553 557	SOOF-M-FL-SM-C-80-P
		NPN	553 558	SOOF-M-FL-SM-C-80-N
	120	PNP	553 559	SOOF-M-FL-SM-C-120-P
		NPN	553 560	SOOF-M-FL-SM-C-120-N

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Peripherals overview, accessories

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Accessories	Brief description	→ Page/ Internet
1 Fork light barrier SOOF	With plug M8x1, 3-pin	3
2 Connecting cable	With socket, M8x1, 3-pin, straight	4
3 Connecting cable	With socket, M8x1, 3-pin, angled	4

Ordering data – Connecting cables				Technical data → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 333	NEBU-M8G3-K-2.5-LE3
			5	541 334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3
			5	541 341	NEBU-M8W3-K-5-LE3

 **Note**

Additional connecting cable variants can be configured and ordered via the NEBU modular product system → Internet: nebu.