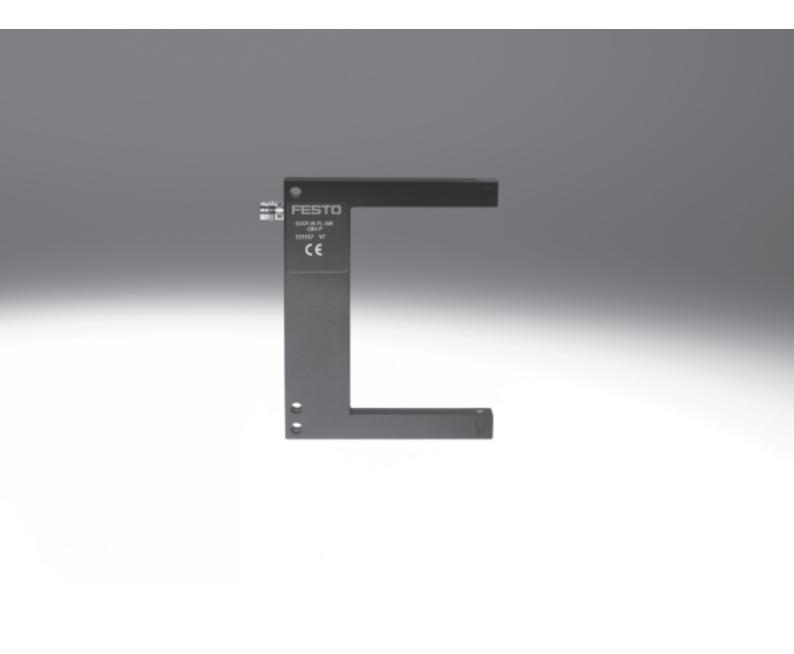
Fork light barriers SOOF

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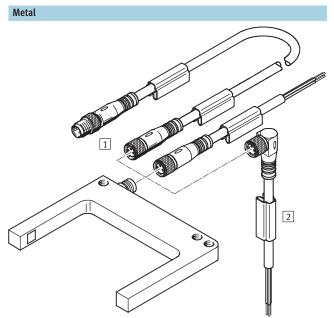
Fork light barriers SOOF Product range overview

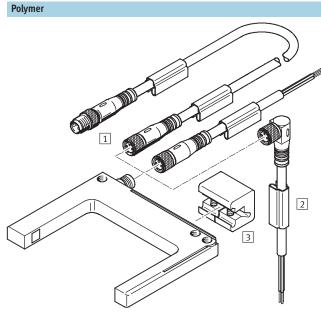


Method of measurement		Size	Min. object diameter	Max. switching frequency	Switching output	Type of light	→ Page/ Internet
		[mm]	[mm]	[Hz]			
Metal							
Fork light barrier	SOOF-MC30	Fork 30x35	0.5	4,000	PNP	Red	5
					NPN		
	SOOF-MC50	Fork 50x55	0.5	4,000	PNP		
					NPN		
	SOOF-MC80	Fork 80x55	0.5	4,000	PNP		
					NPN		
	SOOF-MC120	Fork 120x60	2.0	2,000	PNP		
					NPN		
Polymer							
Fork light barrier	S00F-PC30	Fork 30x35	0.5	2,000	PNP	Red	5
					NPN	_	
	SOOF-PC50	Fork 50x55	0.3	2,000	PNP		
					NPN		
	S00F-PC80	Fork 80x55	0.5	2,000	PNP		
					NPN		
	SOOF-PC120	Fork 120x60	0.4	2,000	PNP		
					NPN		

Fork light barriers SOOF Overview of peripherals

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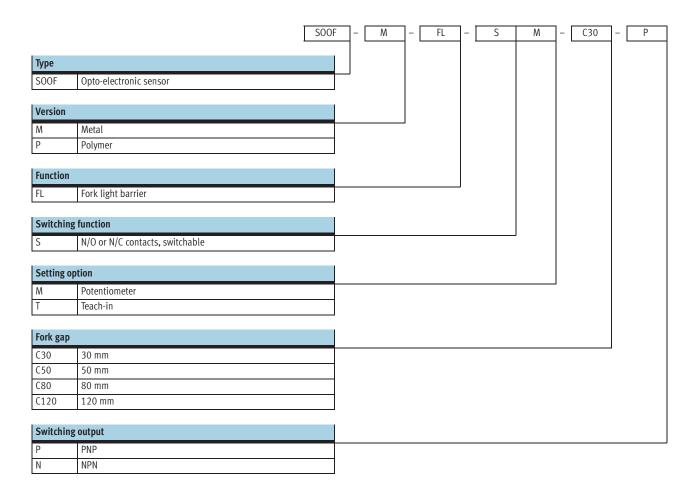


Acce	Accessories					
1	Connecting cable M8x1 NEBU	8				
2	Inscription label holder (included in the scope of delivery for NEBU)	-				

Acces	ssories	→ Page/ Internet
3	Mounting SAMH	8
-	Inscription label ASLR-423	8

Fork light barriers SOOF Type codes

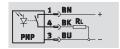




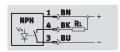
Fork light barriers SOOF Technical data

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Function PNP, switchable



NPN, switchable



- Transmitter and receiver in one compact housing
- Minimum installation effort
- Sturdy housing: high shock and vibration resistance





General technical data										
Version		Metal	Metal			Polymer	Polymer			
Fork gap	[mm]	30	50	80	120	30	50	80	120	
Method of measurement		Fork light b	arrier			Fork light	barrier			
Size	[mm]	Fork	Fork	Fork	Fork	Fork	Fork	Fork	Fork	
		30x35	50x55	80x55	120x60	30x35	50x55	80x55	120x60	
Minimum object diameter	[mm]	0.5	0.5	0.5	2.0	0.5	0.3	0.5	0.4	
Repetition accuracy	[mm]	0.02	0.04	0.06	0.06	0.03		•		
Hysteresis	[mm]	≤ 0.25				≤ 0.25				
Type of light		Red			Red					
Setting options		Potentiometer			Teach-in					
Switching status display		Yellow LED			Yellow LED					
Ready status display		-				Green LED				
Product weight	[g]	75	110	130	260	20	30	35	40	

Electrical data										
Version	Metal	Metal			Polymer	Polymer				
Fork gap	[mm]	30	50	80	120	30	50	80	120	
Max. switching frequency	[Hz]	4,000	4,000	4,000	2,000	2,000	2,000			
Operating voltage range	[V DC]	10 35	10 35			10 30)			
Residual ripple	[%]	±5	±5			10	10			
Max. output current	[mA]	200	200			100	100			
Idle current	[mA]	30	32.5	30	45	30				
Electrical connection		Plug M8x1, 3-pin			Plug M8	Plug M8x1, 3-pin				
Switching element function		Switchable				Switchable				
Protection against short circuit		Pulsed				Pulsed				
Reverse polarity protection	For operating voltage connections				For oper	For operating voltage connections				
Surge capacity	[kV]	0.8			0.8					
Insulation voltage	[V]	50	50			50				
Protection class		IP67				IP67	IP67			

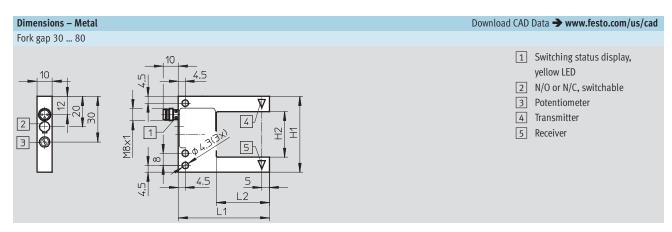
Operating and environmental conditions					
Ambient temperature [°C]	-10 +60				
Degree of contamination	3				
CE mark	To EU EMC Directive ¹⁾				
(see declaration of conformity)					
Certification	cULus listed (OL)				
	C-Tick				

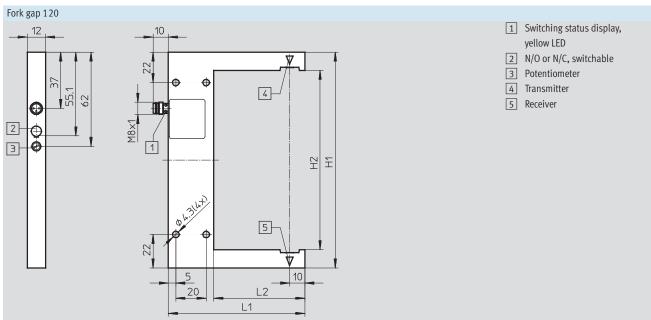
¹⁾ For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com \Rightarrow Support \Rightarrow User documentation.

Fork light barriers SOOF Technical data

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Materials		
Version	Metal	Polymer
Housing	Painted die-cast zinc	PC
Note on materials	Free of copper and PTFE	-
	Contains PWIS (paint wetting impairment substances)	_
	RoHS-compliant	RoHS-compliant

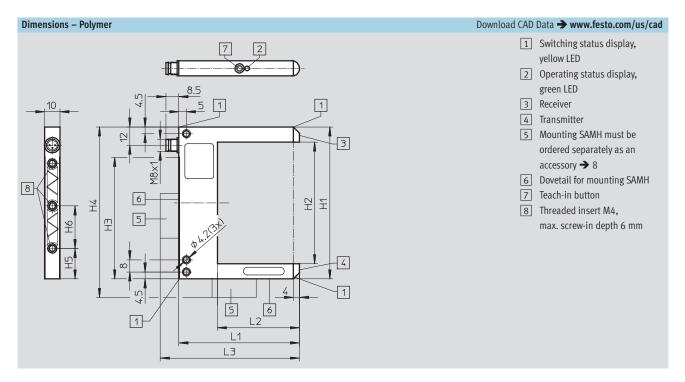




Fork gap H2	H1	L1	L2
30	50	60	35
50	70	80	55
80	90	80	55
120	144	90	60

Fork light barriers SOOF Technical data





Fork gap H2	H1	H3	H4 ¹⁾	H5	H6	L1	L2	L3 ¹⁾
30	50	30	62.2	20	-	59.5	34	71.7
50	70	50	82.2	20	28	79.5	54	91.7
80	100	80	112.2	20	2x28	79.5	54	91.7
120	140	120	152.2	20	3x28	79.5	54	91.7

¹⁾ With mounting SAMH.

Ordering data			
Version	Fork gap [mm]	Switching output	Part No. Type
Metal			
	30	PNP	553 553 SOOF-M-FL-SM-C30-P
	<u></u>	NPN	553 554 SOOF-M-FL-SM-C30-N
\longrightarrow	50	PNP	553 555 SOOF-M-FL-SM-C50-P
		NPN	553 556 SOOF-M-FL-SM-C50-N
	80	PNP	553 557 SOOF-M-FL-SM-C80-P
		NPN	553 558 SOOF-M-FL-SM-C80-N
	120	PNP	553 559 SOOF-M-FL-SM-C120-P
		NPN	553 560 SOOF-M-FL-SM-C120-N
Polymer			
√© ⊘	30	PNP	553 561 SOOF-P-FL-ST-C30-P
		NPN	553 562 SOOF-P-FL-ST-C30-N
	50	PNP	553 563 SOOF-P-FL-ST-C50-P
		NPN	553 564 SOOF-P-FL-ST-C50-N
	80	PNP	553 565 SOOF-P-FL-ST-C80-P
		NPN	553 566 SOOF-P-FL-ST-C80-N
	120	PNP	553 567 SOOF-P-FL-ST-C120-P
		NPN	553 568 SOOF-P-FL-ST-C120-N

Fork light barriers SOOF Accessories



Ordering data	a – Connecting cables	Technical data → Internet: nebu			
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Туре
	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
	Straight socket, M8x1, 3-pin	Straight plug, M8x1, 3-pin	0.5	541 346	NEBU-M8G3-K-0.5-M8G3
			1	541 347	NEBU-M8G3-K-1-M8G3
			2.5	541 348	NEBU-M8G3-K-2.5-M8G3
			5	541 349	NEBU-M8G3-K-5-M8G3

Ordering data	Ordering data - Mounting					
	Part No.	Type				
00	553 569	SAMH-G3-Q				

Ordering data – Inscription labels		
	Part No.	Туре
	541 598	ASLR-423

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

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To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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