



Photoelectric sensors

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Selection guide photoelectric sensors

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	Miniature photoelectric sensors												Small photoelectric sensors											
	W2 Slim	W2 Flat	W4-3	W4S-3	W4-3 Glass	W4S-3 Glass	W4S-3 Inox	W4S-3 Inox Glass	W8	W8 Laser	W8G	W8 Inox	G6	W9-3	W9-3 Glass	W12-3	W12-2 Laser	W12G	W12 Teflon	W11-2	W11G-2	W18-3	W14-2	
Housing material																								
Plastic	■	■	■	■	■	■			■	■	■				■					■	■	■	■	
VISTAL™													■	■										
Metal																■	■	■	■					
Stainless steel							■	■				■												
Light source																								
Red light LED		■							■		■	■		■		■		■	■	■	■	■	■	■
PinPoint LED	■		■	■	■	■	■						■	■	■	■		■					■	
Laser LED										■							■		■					
Infrared LED																						■	■	
Special features																								
Enclosure rating IP 69K	■						■	■				■		■	■	■	■	■	■	■	■			
PTFE coating			■																■					
Line-shaped light spot			■													■							■	
Continuous threshold adaptation					■	■		■							■			■						
UC variants																								
IO-Link			■	■		■	■								■	■		■				■		
Special requirements																								
Detection of clear material					■	■		■			■		■		■			■			■			
Detection of shiny objects			■				■									■								
Detection of small objects				■			■			■							■		■					
Detection of perforated objects			■													■							■	
Potentially explosive atmospheres																						■		
Zone control																								
Hygiene & wet areas							■	■				■							■					
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	Compact photoelectric sensors							Cylindrical photoelectric sensors						Fiber-optic sensors and fibers			MultiTask photoelectric sensors			
	W23-2	W23 Laser	W24-2	W27-3	W250-2	W280-2	W280L-2 Long Range	V12-2	V18V	GR18S	GR18SG	MH15V	V180-2	WLL170-2	WLL180T	LL3	MultiLine Sensor	Reflex Array	MultiPac	WTR
Housing material																				
Plastic	■	■		■	■	■	■							■	■	■	■	■	■	■
VISTAL™																				
Metal			■					■		■	■		■							
Stainless steel									■			■				■				
Light source																				
Red light LED			■		■	■		■				■	■	■	■				■	
PinPoint LED	■			■						■	■	■					■	■		
Laser LED		■					■													
Infrared LED	■		■	■																■
Special features																				
Enclosure rating IP 69K			■	■					■			■				■				
PTFE coating																				
Line-shaped light spot																■	■	■		
Continuous threshold adaptation																		■		
UC-Variants			■	■	■	■														
IO-Link				■																
Special requirements																				
Detection of clear material											■					■		■		
Detection of shiny objects																■	■		■	
Detection of small objects		■					■											■		
Detection of perforated objects																■	■			
Potentially explosive atmospheres			■	■																
Zone control																				■
Hygiene & wet areas									■			■				■				
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Maximum sensing range of photoelectric sensors by sensor principle

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Product family	Max. sensing range			Page
	Photoelectric proximity sensor	Photoelectric retro-reflective sensor	Through-beam photoelectric sensor	
W2 Slim	55 mm	0.8 m	1.2 m	30
W2 Flat	115 mm	–	0.5 m	32
W4-3	150 mm	4 m	6 m	34
W4S-3	180 mm	5 m	5 m	37
W4-3 Glass	–	4 m	–	40
W4S-3 Glass	–	5 m	–	42
W4S-3 Inox	500 mm	5 m	5 m	44
W4S-3 Inox Glass	–	5 m	–	47
W8	300 mm	4 m	10 m	49
W8 Laser	300 mm	–	–	51
W8G	–	3 m	–	53
W8 Inox	950 mm	6.5 m	45 m	54
G6	300 mm	7.2 m	15 m	56
W9-3	800 mm	5 m	10 m	59
W9-3 Glass	–	5 m	–	62
W12-3	600 mm	7 m	20 m	64
W12-2 Laser	200 mm	18 m	80 m	66
W12G	–	4 m	–	68
W12 Teflon	600 mm	7 m	20 m	70
W11-2	1,100 mm	10 m	20 m	72
W11G-2	–	4 m	–	74
W14-2	1,500 mm	17 m	15 m	76
W18-3	1,000 mm	7 m	20 m	78
W23-2	2,300 mm	15 m	–	80
W24-2	2,500 mm	22 m	60 m	82
W27-3	2,500 mm	19 m	35 m	84
W23 Laser	800 mm	–	–	86
W250-2	1,000 mm	15 m	50 m	87
W280-2	2,000 mm	15 m	60 m	89
W280L-2 Long Range	4,000 mm ¹⁾	–	–	91
V12-2	340 mm	2.8 m	5 m	93
V18V	900 mm	5 m	20 m	95
GR18S	550 mm	7.2 m	15 m	97
GR18SG	–	7.2 m	–	100
MH15V	350 mm	5 m	5 m	102
V180-2	500 mm	7 m	28 m	104
WLL170-2	–	–	4 m	106
WLL180T	–	–	20 m	108
MultiPac	500 mm	–	–	113
MultiLine Sensor	120 mm	–	–	114
Reflex Array	–	4.5 m	–	115
WTR	900 mm	–	–	117

¹⁾ A maximum sensing range of 18 m is achieved when using Reflector P250 or PL80A on target object.

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At a glance

- Durable, overmolded housing with metal sleeves for 3 mm fixing bolts
- Background suppression proximity sensor with laser-like light spot
- PinPoint LED in all models provides small, bright, uniform light spot
- Fast response time of 0.6 ms

Your benefits

- Rugged yet slim housing withstands ingress and vibrations, ensuring a long service life with fewer replacement costs
- PinPoint LED with highly visible light spot enables precise detection of objects with a high level of accuracy
- Durable metal sleeves for 3 mm fixing screws enable simple, time-saving machine integration

→ www.mysick.com/en/W2_Slim

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W2_Slim

Photoelectric proximity sensor

Detection principle	Sensing range max.	Output function	Switching mode	Connection	Model name	Part no.
Background suppression	1 mm ... 15 mm	PNP	Light-switching	Cable, 3-wire	WT2S-P111	1022660
				Cable with plug, M8, 3-pin	WT2S-P211	1022658
				Cable with plug, M8, 4-pin	WT2S-P411	1023631
		NPN	Dark-switching	Cable with plug, M8, 3-pin	WT2S-F211	1024171
				Cable, 3-wire	WT2S-N111	1022662
				Cable, 3-wire	WT2S-E111	1026684
	1 mm ... 30 mm	PNP	Light-switching	Cable, 3-wire	WT2S-P131	1022661
				Cable with plug, M8, 3-pin	WT2S-P231	1022659
				Cable with plug, M8, 4-pin	WT2S-P431	1023632
		NPN	Dark-switching	Cable with plug, M8, 3-pin	WT2S-F231	1041690
				Cable, 3-wire	WT2S-N131	1022663
				Cable with plug, M8, 3-pin	WT2S-N231	1029900
Energetic	1 mm ... 55 mm	PNP	Light-switching	Cable, 3-wire	WT2S-P161	1022664
				Cable with plug, M8, 3-pin	WT2S-P261	1023640
				Cable with plug, M8, 4-pin	WT2S-P461	1023641
		NPN	Dark-switching	Cable with plug, M8, 3-pin	WT2S-F261	1043913
				Cable, 3-wire	WT2S-N161	1022665
				Cable, 3-wire	WT2S-N161	1022665

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Sensing range max.:** 0.04 m ... 0.8 m (PL20A.)




Output function	Switching mode	Connection	Model name	Part no.
PNP	Light-switching	Cable, 3-wire	WL2S-P111	1023869
		Cable with plug, M8, 3-pin	WL2S-P211	1024249
	Dark-switching	Cable, 3-wire	WL2S-F111	1022666
		Cable with plug, M8, 4-pin	WL2S-F411	1023644
NPN	Light-switching	Cable, 3-wire	WL2S-N111	1023870
	Dark-switching	Cable, 3-wire	WL2S-E111	1022667

Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 1.2 m

Output function	Switching mode	Connection	Model name	Part no.
PNP	Light-switching	Cable, 3-wire	WS/WE2S-P113	1028550
		Cable with plug, M8, 3-pin	WS/WE2S-P213	1052245
	Dark-switching	Cable, 3-wire	WS/WE2S-F113	1022668
		Cable with plug, M8, 3-pin	WS/WE2S-F213	1023650
NPN	Dark-switching	Cable, 3-wire	WS/WE2S-E113	1022669
		Cable with plug, M8, 3-pin	WS/WE2S-E213	1048695

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	-	Steel, zinc coated	BEF-W2S-A	4034748
					BEF-W2S-B	4034749
	Reflectors	Round	-	PMMA/ABS	PL22-2	1003621
		Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
	Terminal and alignment brackets	Alignment brackets	-	Plastic	BEF-GH-MINI01	2023160

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At a glance

- One of the smallest photoelectric sensors in the world
- No external amplifier required
- Variant designed to detect transparent and glossy objects
- Rugged housing with metal-reinforced fixing holes

Your benefits

- High-performance solutions for very tight spaces provide increased application flexibility
- Fast response times with a high level of accuracy and precise switching points
- The high enclosure rating and the rugged housing offer a long service life that withstands harsh environmental conditions
- Quick and easy installation since sensors can be mounted directly on machine parts

→ www.mysick.com/en/W2_Flat

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W2_Flat

Photoelectric proximity sensor

- Detection principle: energetic

Sensing range max.	Output function	Switching mode	Connection	Model name	Part no.
1 mm ... 9 mm	PNP	Light-switching	Cable, 3-wire	WT2F-P170	6030588
			Cable with plug, M8, 3-pin	WT2F-P270	6030589
			Cable with plug, M8, 4-pin	WT2F-P470	6030590
2 mm ... 18 mm	PNP	Light-switching	Cable, 3-wire	WT2F-N170	6030587
			Cable, 3-wire	WT2F-P140	6030584
			Cable with plug, M8, 3-pin	WT2F-P240	6030585
2 mm ... 34 mm	PNP	Light-switching	Cable with plug, M8, 4-pin	WT2F-P440	6030586
			Cable, 3-wire	WT2F-N140	6030583
			Cable, 3-wire	WT2F-P150	6030580
4 mm ... 115 mm	PNP	Light-switching	Cable with plug, M8, 3-pin	WT2F-P250	6030581
			Cable with plug, M8, 4-pin	WT2F-P450	6030582
			Cable, 3-wire	WT2F-N150	6030576
4 mm ... 115 mm	PNP	Light-switching	Cable, 3-wire	WT2F-E150	6043902
			Cable, 3-wire	WT2F-P180	6030573
			Cable with plug, M8, 3-pin	WT2F-P280	6030574
4 mm ... 115 mm	PNP	Light-switching	Cable with plug, M8, 4-pin	WT2F-P480	6030575
			Cable, 3-wire	WT2F-N180	6030572

Through-beam photoelectric sensor

- Sensing range max.: 0 m ... 0.5 m

Output function	Switching mode	Connection	Model name	Part no.
PNP	Light-switching	Cable, 3-wire	WS/WE2F-P110	6049355
		Cable with plug, M8, 3-pin	WS/WE2F-P210	6030566
	Dark-switching	Cable, 3-wire	WS/WE2F-F110	6030569
		Cable with plug, M8, 3-pin	WS/WE2F-F210	6030570
NPN	Light-switching	Cable, 3-wire	WS/WE2F-N110	6030540
	Dark-switching	Cable, 3-wire	WS/WE2F-E110	6030554



B



At a glance

- Best-in-class background suppression, reliable detection of critical objects and a high immunity to ambient light
- Quick and easy setup using a precise 5-turn potentiometer, control wire or teach function
- Best background suppression in its class
- PinPoint LED for brightest light spot in its class
- IO-Link (depending on type)

Your benefits

- Low-cost integration due to optimal machine integration in areas with limited space
- Application versatility due to reliable detection of shiny, transparent or jet-black objects
- IO-Link or teach-in pushbuttons enable quick commissioning
- Rugged mounting system with M3 threaded metal inserts reduces maintenance costs due to a long service life
- High immunity to ambient light reduces downtime caused by false trips
- Clearly visible light spot simplifies alignment
- Low maintenance due to a high performance device that will consistently detect challenging objects

→ www.mysick.com/en/W4-3

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W4-3

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Sensing range max.:** 4 mm ... 150 mm (Object with 90 % reflectance (referred to standard white DIN 5033))

Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
PNP	Light-switching	Adjustable potentiometer, 5-turn	Cable with plug, M8, 3-pin	WTB4-3P3161	1028097
		Adjustable Teach	Connector M8, 3-pin	WTB4-3P2162	1028084
		Adjustable Teach, cable ¹⁾	Connector M8, 4-pin	WTB4-3P2264	1028086
		Adjustable Teach	Cable with plug, M8, 3-pin	WTB4-3P3162	1028082
		Adjustable Teach, cable ¹⁾	Cable with plug, M12, 4-pin	WTB4-3P3464	1044013
	Light/dark-switching	Adjustable potentiometer, 5-turn	Connector M8, 4-pin	WTB4-3P2261	1028100
			Cable with plug, M8, 4-pin	WTB4-3P3261	1028098
			Connector M8, 4-pin	WTB4-3P2271	1042190
NPN	Dark-switching	Adjustable potentiometer, 5-turn	Cable, 3-wire	WTB4-3F1361	1028105
	Light-switching	Adjustable potentiometer, 5-turn	Cable, 3-wire	WTB4-3N1361	1028101
	Light/dark-switching	Adjustable potentiometer, 5-turn	Cable, 4-wire	WTB4-3N1161	1028102
	Light-switching	Adjustable potentiometer, 5-turn	Cable, 3-wire	WTB4-3N1371	1028125

¹⁾ External teach-in: pulse > 2 s with voltage U_v with PNP and M with NPN.

Photoelectric proximity sensor with V-optics

- **Detection principle:** background suppression

Sensing range max. ¹⁾	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
4 mm ... 50 mm	PNP	Light/dark-switching	Adjustable potentiometer, 5-turn	Connector M8, 4-pin	WTV4-3P2241	1028114
				Cable with plug, M12, 4-pin	WTV4-3P3441	1029582
		Light-switching	Adjustable potentiometer, 5-turn	Cable, 3-wire	WTV4-3P1321	1029888
			Adjustable Teach	Cable with plug, M8, 4-pin	WTV4-3P3122	1046411
	NPN	Light-switching	Adjustable potentiometer, 5-turn	Cable, 3-wire	WTV4-3N1321	1029885

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric proximity sensor with line-shaped light spot

- **Detection principle:** background suppression

Sensing range max. ¹⁾	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
3 mm ... 50 mm	PNP	Light-switching	Adjustable potentiometer, 5-turn	Connector M8, 4-pin	WTV4-3P2271	1046644
	NPN	Light-switching	Adjustable potentiometer, 5-turn	Cable, 4-wire	WTV4-3N1171	1046898
4 mm ... 150 mm	PNP	Light-switching	Adjustable potentiometer, 5-turn	Cable with plug, M8, 3-pin	WTB4-3P3171	1028122

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Sensing range max.:** 0.01 m ... 4 m (PL80A.)
- **Adjustment:** no/fix

Switching output	Switching mode	Connection	Model name	Part no.
PNP	Light/dark-switching	Connector M8, 4-pin	WL4-3P2230	1028147
	Light-switching	Cable with plug, M12, 4-pin	WL4-3P3430	1044347
	Dark-switching	Connector M8, 3-pin	WL4-3F2130	1028155
NPN	Light-switching	Cable, 3-wire	WL4-3N1330	1028148
	Dark-switching	Cable, 3-wire	WL4-3E1330	1028156









Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 6 m

Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
PNP	Light/dark-switching	No/fix	Connector M8, 4-pin	WSE4-3P2230	1028160
		No/fix	Connector M8, 3-pin	WSE4-3P2130	1028163
	Light-switching	Adjustable potentiometer, 5-turn	Cable with plug, M8, 3-pin	WSE4-3P3131	1029898
			Cable with plug, M8, 3-pin	WSE4-3F3130	1028170
NPN	Dark-switching	No/fix	Cable, 3-wire	WSE4-3E1330	1028172

Accessories

B

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	–	Stainless steel 1.4571	BEF-SW-W4S	2051497
	Reflectors	Fine triple reflectors	47 mm x 47 mm	PMMA/ABS	P250F	5308843
			18 mm x 18 mm	PMMA/ABS	PL10F	5311210
			16 mm x 38 mm	PMMA/ABS	PL20F	5308844
		Round	–	PMMA/ABS	PL22-2	1003621
		Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
		Reflective tape	22.8 m x 5 cm ¹⁾	–	REF-PLUS-50-K	4051185
	Terminal and alignment brackets	Universal terminal systems	–	Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N08	2051607

¹⁾ Customizable length by roll. Width 5 cm, length max. 22.8 m.



At a glance

- Best background suppression sensor in its class
- Photoelectric retro-reflective sensor for transparent objects reliably detects all known objects
- Universal use of PinPoint LED technology in all models
- BGS proximity sensor with laser-like light spot for precise detection tasks
- Reliable setting via 5-turn potentiometer, teach-in pushbutton, teach-in via cable or IO-Link

Your benefits

- Application versatility due to reliable detection of shiny, transparent or jet-black objects
- IO-Link or teach-in pushbuttons enable sensors to be quickly commissioned
- Very quick and easy alignment due to the highly visible, intense PinPoint LED light spot
- Rugged mounting system with M3 threaded metal inserts reduces maintenance costs due to a long service life
- Background suppression sensors with a laser-like light spot reduce costs and installation of additional protective measures by replacing laser sensors

→ www.mysick.com/en/W4S-3

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W4S-3

Photoelectric proximity sensor

- **Detection principle:** background suppression

Sensing range max. ¹⁾	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
4 mm ... 120 mm	PNP	Light/dark-switching	Adjustable Teach	Cable with plug, M12, 4-pin	WTB4S-3P3432	1051373
		Light-switching	Adjustable Teach, cable	Connector M8, 4-pin	WTB4SC-3P2232	1042049
				Cable with plug, M12, 4-pin	WTB4SC-3P3432	1042048
		Dark-switching	Adjustable potentiometer, 5-turn	Connector M8, 3-pin	WTB4S-3F2131	1042060
	NPN	Light-switching	Adjustable cable ²⁾	Cable, 4-wire	WTB4S-3N1135	1047127
			Adjustable potentiometer, 5-turn	Cable, 3-wire	WTB4S-3W1331	1050573
			Adjustable Teach	Cable, 4-wire	WTB4S-3N1132	1051563
			Adjustable potentiometer, 5-turn	Cable, 3-wire	WTB4S-3N1331	1042062
		Dark-switching	Adjustable potentiometer, 5-turn	Cable, 3-wire	WTB4S-3E1331	1042064
4 mm ... 150 mm	PNP	Light-switching	Adjustable Teach	Connector M8, 3-pin	WTB4S-3P2162	1042037
			Adjustable Teach, cable	Cable with plug, M8, 4-pin	WTB4S-3P3264	1042035
			Adjustable Teach	Connector M8, 4-pin	WTB4SC-3P2262	1042033
	NPN	Light-switching	Adjustable Teach, cable	Cable, 4-wire	WTB4S-3N1164	1042036

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

²⁾ External teach-in: pulse > 2 s with voltage U_v with PNP and M with NPN.

Sensing range max. ¹⁾	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
4 mm ... 180 mm	PNP	Light/dark-switching	Adjustable potentiometer, 5-turn	Connector M8, 4-pin	WTB4S-3P2261	1042041
				Cable with plug, M12, 4-pin	WTB4S-3P3461	1044809
		Dark-switching	Adjustable potentiometer, 5-turn	Connector M8, 3-pin	WTB4S-3F2161	1042044
	NPN	Dark-switching	Adjustable potentiometer, 5-turn	Cable, 3-wire	WTB4S-3E1361	1042047

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

²⁾ External teach-in: pulse > 2 s with voltage U_v with PNP and M with NPN.

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation

Sensing range max. ¹⁾	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
0 m ... 4 m	PNP	Light/dark-switching	No/fix	Connector M8, 4-pin	WL4S-3P2230	1042066
		Light-switching	No/fix	Connector M8, 3-pin	WL4S-3P2130	1042069
				Cable with plug, M8, 3-pin	WL4S-3P3130	1042070
		Dark-switching	No/fix	Cable, 3-wire	WL4S-3F1330	1042068
0 m ... 5 m	NPN	Light-switching	No/fix	Cable, 3-wire	WL4S-3N1330	1042073
	PNP	Light-switching	Adjustable Teach	Cable with plug, M8, 3-pin	WL4S-3P3132	1044802
				Cable, 3-wire	WL4S-3F1332	1042076
		Dark-switching	Adjustable Teach	Cable with plug, M8, 3-pin	WL4S-3F3132	1042075
				Connector M8, 4-pin	WL4S-3V2232	1042079
	NPN	Light-switching	Adjustable Teach	Cable, 3-wire	WL4S-3N1332	1042082
		Dark-switching	Adjustable Teach	Cable, 3-wire	WL4S-3E1332	1042081
				Cable, 4-wire	WL4S-3W1132	1042083









¹⁾ PL80A.

Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 5 m
- **Adjustment:** no/fix

Switching output	Switching mode	Connection	Model name	Part no.
PNP	Light-switching	Connector M8, 3-pin	WSE4S-3P2130	1052892
	Dark-switching	Cable with plug, M12, 4-pin	WSE4S-3F3430	1052884
NPN	Light-switching	Cable, 3-wire	WSE4S-3N1330	1052872
	Dark-switching	Cable, 3-wire	WSE4S-3E1330	1052867

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	–	Stainless steel 1.4571	BEF-SW-W4S	2051497
	Reflectors	Fine triple reflectors	47 mm x 47 mm	PMMA/ABS	P250F	5308843
			18 mm x 18 mm	PMMA/ABS	PL10F	5311210
			16 mm x 38 mm	PMMA/ABS	PL20F	5308844
		Round	–	PMMA/ABS	PL22-2	1003621
		Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
		Reflective tape	22.8 m x 5 cm ¹⁾	–	REF-PLUS-50-K	4051185
	Terminal and alignment brackets	Universal terminal systems	–	Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N08	2051607

¹⁾ Customizable length by roll. Width 5 cm, length max. 22.8 m.

B



At a glance

- Setting via teach-in pushbutton
- PinPoint LED technology for highly visible intense light spot
- Versions available with and without polarization filter
- Sensing range from 0.01 - 4 m
- Detection of glass with an attenuation of > 8% (version with polarization filter)
- Detection of PET bottles and films with an attenuation of > 8% (version without polarization filter)
- Sensitivity control via cable (optional)

Your benefits

- Reliable and quick setting via the push of a button
- Flat housing design eliminates alignment or mounting brackets, which saves time and money
- Low-cost machine integration due to small dimensions that enable mounting in areas with space restrictions
- Quick and easy setup due to highly visible intensive light spot
- The PinPoint LED's well-defined, intense light spot simplifies alignment
- Nearly all transparent objects can be reliably detected

→ www.mysick.com/en/W4-3_Glass

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W4-3_Glass








Photoelectric retro-reflective sensor

- **Housing design:** flat
- **Detection principle:** autocollimation

Sensing range max. ¹⁾	Switching output	Switching mode	Polarisation filter	Sensitivity adjustment	Connection	Model name	Part no.
0.01 m ... 1.6 m	PNP	Light-switching	–	Teach	Connector M8, 3-pin	WLG4-3P2182	1044179
	NPN	Dark-switching	–	Teach	Cable, 3-wire, 2 m, PVC	WLG4-3E1382	1028138
0.01 m ... 4 m	PNP	Light-switching	✓	Teach	Cable, 3-wire, 2 m, PVC	WLG4-3P1332	1042844
					Connector M8, 3-pin	WLG4-3P2132	1029567
		Dark-switching	✓	Teach	Connector M8, 3-pin	WLG4-3F2132	1028127
					Cable with plug, M8, 3-pin, 100 mm, PVC	WLG4-3F3132	1028128
				Teach, cable	Connector M8, 4-pin	WLG4-3F2234	1028130
					Cable with plug, M8, 4-pin, 100 mm, PVC	WLG4-3F3234	1028129
	NPN	Dark-switching	✓	Teach, cable	Cable with plug, M12, 4-pin, 150 mm, PVC	WLG4-3F3434	1043683
					Cable, 4-wire, 2 m, PVC	WLG4-3E1134	1028133
				Teach	Cable, 3-wire, 2 m, PVC	WLG4-3E1332	1028131
					Connector M8, 3-pin	WLG4-3E2132	1028132

¹⁾ PL80A.

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Reflectors	Fine triple reflectors	47 mm x 47 mm	PMMA/ABS	P250F	5308843
			18 mm x 18 mm	PMMA/ABS	PL10F	5311210
			16 mm x 38 mm	PMMA/ABS	PL20F	5308844
		Round	–	PMMA/ABS	PL22-2	1003621
		Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
		Reflective tape	22.8 m x 5 cm ¹⁾	–	REF-PLUS-50-K	4051185
	Terminal and alignment brackets	Universal terminal systems	–	Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N08	2051607

¹⁾ Customizable length by roll. Width 5 cm, length max. 22.8 m.

B



At a glance

- Continuous threshold adaption of the switching threshold compensates for environmental changes
- Single-lens autocollimation optics
- Simple setting either via teach-in pushbutton, cable or IO-Link
- PinPoint LED technology with a small, highly visible, well-defined light spot enables high reserve levels when using small reflectors
- Easy-to-use teach-in pushbutton

Your benefits

- Optimal detection of any kind of transparent object
- Quick and easy operation via the push of a button – automatic setting of the correct switching threshold
- Less downtime due to a Continuous Threshold Adaption which compensates for changing environmental conditions, including temperature, dust and drift effects
- The well-defined, highly visible intense light spot provides quick and reliable alignment

→ www.mysick.com/en/W4S-3_Glass

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W4S-3_Glass









Photoelectric retro-reflective sensor

- **Housing design:** slim
- **Detection principle:** autocollimation
- **Sensing range max.:** 0.01 m ... 5 m (PL80A.)
- **Polarisation filter:** ✓

Switching output	Switching mode	Sensitivity adjustment	Connection	Model name	Part no.
PNP	Light-switching	Teach, cable	Connector M8, 4-pin	WLG4S-3P2234	1052999
		Teach	Cable with plug, M8, 3-pin, 100 mm, PVC	WLG4S-3P3132	1043839
		Teach, cable	Cable with plug, M8, 4-pin, 100 mm, PVC	WLG4S-3P3234	1054098
			Cable with plug, M12, 4-pin, 150 mm, PVC	WLG4S-3P3434	1046819
		Teach	Cable with plug, M12, 4-pin, 150 mm, PVC	WLG4S-3P3432	1051097
	Dark-switching	Teach	Cable, 4-wire, 2 m, PVC	WLG4S-3V1132	1055895
			Connector M8, 4-pin	WLG4S-3V2232	1042087
			Cable with plug, M8, 3-pin, 100 mm, PVC	WLG4S-3F3132	1043838
		Teach, cable	Cable with plug, M8, 4-pin, 100 mm, PVC	WLG4S-3F3234	1043840
		Teach	Cable with plug, M12, 3-pin, 150 mm, PVC	WLG4S-3F3332	1059718
		Teach, cable	Connector M8, 4-pin	WLG4S-3F2234	1042084
	Light/dark-switching	Teach	Connector M8, 4-pin	WLG4S-3P2232	1044186
			Cable with plug, M8, 4-pin, 100 mm	WLG4S-3P3232	1052963

Switching output	Switching mode	Sensitivity adjustment	Connection	Model name	Part no.
NPN	Light-switching	Teach	Cable, 3-wire, 2 m, PVC	WLG4S-3N1332	1046111
	Dark-switching	Teach, cable	Cable, 4-wire, 2 m, PVC	WLG4S-3E1134	1042085
		Teach	Cable, 4-wire, 2 m, PVC	WLG4S-3W1132	1042086
	Light/dark-switching	Teach, cable	Cable with plug, M12, 4-pin, 150 mm, PVC	WLG4S-3N3432	1052210

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	–	Stainless steel 1.4571	BEF-SW-W4S	2051497
	Reflectors	Fine triple reflectors	47 mm x 47 mm	PMMA/ABS	P250F	5308843
			18 mm x 18 mm	PMMA/ABS	PL10F	5311210
			16 mm x 38 mm	PMMA/ABS	PL20F	5308844
		Round	–	PMMA/ABS	PL22-2	1003621
		Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
		Reflective tape	22.8 m x 5 cm ¹⁾	–	REF-PLUS-50-K	4051185
	Terminal and alignment brackets	Universal terminal systems	–	Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N08	2051607

¹⁾ Customizable length by roll. Width 5 cm, length max. 22.8 m.

B



Stainless Steel



At a glance

- WashDown rated for fluid tightness (IP 66, IP 67, IP 68 and IP 69K) and Ecolab certified
- Tough stainless steel housing (316L/1.4404)
- Modern electrical connection available – M12 connector with pin casting
- Resistant to a variety of common cleaning and disinfection agents
- PinPoint LED technology provides a highly visible laser-like light spot
- Teach-in via stainless steel pushbutton with a metal membrane
- Remote monitoring and quick diagnostics via IO-Link (optional)

Your benefits

- Long service life in harsh conditions ensures less downtime and fewer replacement costs
- Quick and easy alignment due to highly visible PinPoint emitter LED
- Easy adjustment via a stainless steel metal membrane teach-in pushbutton
- Remote monitoring and quick diagnostics via IO-Link

→ www.mysick.com/en/W4S-3_Inox

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W4S-3_Inox

Photoelectric proximity sensor

Detection principle	Sensing range max. ¹⁾	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
Foreground suppression	20 mm ... 200 mm	PNP	Light/dark-switching	Teach	Connector M8, 4-pin	WTF4S-3P2262V	1046410
Background suppression	4 mm ... 120 mm	PNP	Light/dark-switching	Teach	Connector M8, 4-pin	WTB4S-3P2232V	1046396
					Cable with plug, M8, 4-pin	WTB4S-3P3232V	1046398
			Light-switching	Teach	Cable with plug, M12, 4-pin	WTB4S-3P3432V	1046399
					Connector M12, 4-pin	WTB4S-3P2432V	1054672
	4 mm ... 500 mm	PNP	Light/dark-switching	Teach	Cable, 4-wire	WTB4S-3P1162V	1046388
					Connector M8, 4-pin	WTB4S-3P2262V	1046383
					Cable with plug, M8, 4-pin	WTB4S-3P3262V	1046385
					Connector M12, 4-pin	WTB4S-3P2462V	1054675
			Light-switching	Teach	Connector M8, 3-pin	WTB4S-3P2162V	1046384
				Teach, cable	Cable with plug, M12, 4-pin	WTB4S-3P3464V	1048015
			Dark-switching	Teach	Connector M8, 3-pin	WTB4S-3F2162V	1046389
					Cable with plug, M8, 3-pin	WTB4S-3F3162V	1046390
		NPN	Light/dark-switching	Teach	Cable, 4-wire	WTB4S-3N1162V	1046391
					Connector M12, 4-pin	WTB4S-3N2462V	1054703
			Light-switching	Cable	Connector M8, 4-pin	WTB4S-3N2265V	1047620
				Teach	Cable, 3-wire	WTB4S-3N1362V	1046393
					Connector M8, 3-pin	WTB4S-3N2162V	1046392

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation

Sensing range max. ¹⁾	Switching output	Switching mode	Adjustment	Alarm output	Connection	Model name	Part no.
0 m ... 4 m	PNP	Light/dark-switching	–	–	Connector M8, 4-pin	WL4S-3P2230V	1045095
					Connector M12, 4-pin	WL4S-3P2430V	1054707
					Cable with plug, M12, 4-pin	WL4S-3P3430V	1046415
	NPN	Dark-switching	–	–	Cable, 3-wire	WL4S-3E1330V	1046420
		Light/dark-switching	–	–	Cable, 4-wire	WL4S-3N1130V	1046418
0 m ... 5 m	PNP	Light/dark-switching	Teach	–	Connector M12, 4-pin	WL4S-3P2432V	1054715
		Dark-switching	Teach	✓	Cable with plug, M12, 4-pin	WL4S-3P3432V	1046426
					Connector M8, 4-pin	WL4S-3V2232V	1046422
	NPN	Light/dark-switching	Teach	–	Connector M12, 4-pin	WL4S-3N2432V	1054722







¹⁾ PL80A.

Through-beam photoelectric sensor





- **Sensing range max.:** 0 m ... 5 m

Switching output	Switching mode	Connection	Model name	Part no.
PNP	Light-switching	Connector M8, 3-pin	WSE4S-3P2130V	1046439
	Light/dark-switching	Connector M12, 4-pin	WSE4S-3P2430V	1054784
	Dark-switching	Connector M8, 3-pin	WSE4S-3F2130V	1045099
		Cable with plug, M12, 4-pin	WSE4S-3F3430V	1048028
NPN	Light-switching	Connector M8, 3-pin	WSE4S-3N2130V	1047629

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	–	Stainless steel 1.4571	BEF-W4-A	2051628
	Other mounting accessories	–	–	–	BEF-MR18G-NA	4065853
	Reflectors	Angular	47 mm x 47 mm	Plastic	P250 CHEM	5321097
		Fine triple reflectors	18 mm x 18 mm	–	PL10F CHEM	5321636
		Special reflectors	15 mm x 38 mm	–	PL20 CHEM	5321089
			25 mm x 25 mm	Stainless steel V4A (1.4404, 316L)	PLH25-D12	2063404
					PLH25-M12	2063403

B

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Reflectors	Special reflectors	14 mm x 14 mm	Stainless steel V4A (1.4404, 316L)	PLV14-A	2063405
	Terminal and align- ment brackets	Universal terminal systems	-	Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp)	BEF-KHS-N08N	2051616
				Stainless steel (1.4571)	BEF-MS12G-NB	4058915
				Aluminum	BEF-RMC-D12	5321878



Stainless Steel



At a glance

- IP 66, IP 67, IP 68 and IP 69K enclosure rating and Ecolab certified
- Tough stainless steel housing (316L/1.4404)
- Resistant to a variety of common cleaning and disinfection agents
- Modern electrical connection available – M12 connector with pin casting
- PinPoint LED technology provides a highly visible laser-like light spot
- Teach-in via stainless steel pushbutton with a metal membrane
- Continuous threshold adjustment technology reliably detects objects in changing conditions

Your benefits

- Long service life in harsh conditions ensures less downtime and fewer replacement costs
- Reliable detection of all materials, including transparent objects in the pharmaceutical, packaging, and food and beverage industries
- Easy adjustment via a stainless steel metal membrane teach-in pushbutton
- Quick and easy alignment due to highly visible PinPoint emitter LED
- Remote monitoring and quick diagnostics via IO-Link (optional)

→ www.mysick.com/en/W4S-3_Inox_Glass

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W4S-3_Inox_Glass








Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Sensing range max.:** 0,01 m ... 5 m (PL80A.)

Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
PNP	Light/dark-switching	Teach	Cable, 4-wire, 2 m, PVC	WLG4S-3P1132V	1055044
			Connector M8, 4-pin	WLG4S-3P2232V	1046446
			Connector M12, 4-pin, PVC	WLG4S-3P2432V	1054725
			Cable with plug, M8, 4-pin, 150 mm, PVC	WLG4S-3P3232V	1046448
			Cable with plug, M12, 4-pin, 150 mm, PVC	WLG4S-3P3432V	1046449
	Light-switching	Teach, cable	Connector M8, 4-pin	WLG4S-3P2234V	1051456
	Dark-switching	Teach, cable	Connector M8, 4-pin	WLG4S-3F2234V	1047653
			Connector M12, 4-pin, PVC	WLG4S-3F2434V	1054727
			Cable with plug, M12, 4-pin, 150 mm, PVC	WLG4S-3F3434V	1048024
		Cable	Connector M8, 4-pin	WLG4S-3F2235V	1045098
Teach		Connector M8, 4-pin	WLG4S-3V2232V	1046447	
NPN	Light/dark-switching	Teach	Cable, 4-wire, 2 m, PVC	WLG4S-3N1132V	1046450
			Connector M12, 4-pin, PVC	WLG4S-3N2432V	1054728
		Dark-switching	Teach, cable	Cable, 4-wire, 2 m, PVC	WLG4S-3E1134V
	Cable		Cable, 4-wire, 2 m, PVC	WLG4S-3E1135V	1046438

Accessories

B

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Other mounting accessories	–	–	–	BEF-MR18G-NA	4065853
	Reflectors	Fine triple reflectors	18 mm x 18 mm	–	PL10F CHEM	5321636
		Special reflectors	25 mm x 25 mm	Stainless steel V4A (1.4404, 316L)	PLH25-D12	2063404
					PLH25-M12	2063403
			14 mm x 14 mm	Stainless steel V4A (1.4404, 316L)	PLV14-A	2063405
	Terminal and alignment brackets	Universal terminal systems	–	Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp)	BEF-KHS-N02N	2051618
				Stainless steel (1.4571)	BEF-MS12G-NA	4058914
				Aluminum	BEF-RMC-D12	5321878



At a glance

- Miniature housing with M3 threaded mounting holes
- Switching frequency up to 2 kHz
- Stainless steel mounting bracket (1.4301/304) BEF-W100-A included with delivery

Your benefits

- Highly flexible design and operational capabilities due to precise back-ground suppression
- Quick and easy mounting due to the universally compatible M3 threaded mounting holes
- A fast switching frequency optimizes production processes
- All necessary accessories are included with delivery, decreasing installation and procurement costs
- Application versatility due to sensitivity adjustments, light/dark switching and a variety of connection options

→ www.mysick.com/en/W8

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W8

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Switching mode:** light/dark-switching

Sensing range max. ¹⁾	Switching output	Connection	Model name	Part no.
5 mm ... 100 mm	PNP	Cable, 3-wire	WTB8-P1111	6033211
		Connector M8, 3-pin	WTB8-P2111	6033213
		Connector M8, 4-pin	WTB8-P2211	6033215
	NPN	Cable, 3-wire	WTB8-N1111	6033210
		Connector M8, 3-pin	WTB8-N2111	6033212
		Connector M8, 4-pin	WTB8-N2211	6033214
30 mm ... 300 mm	PNP	Cable, 3-wire	WTB8-P1131	6033205
		Connector M8, 3-pin	WTB8-P2131	6033207
		Connector M8, 4-pin	WTB8-P2231	6033209
	NPN	Cable, 3-wire	WTB8-N1131	6033204
		Connector M8, 3-pin	WTB8-N2131	6033206
		Connector M8, 4-pin	WTB8-N2231	6033208

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Sensing range max.:** 0 m ... 4 m (PL80A.)
- **Switching mode:** light/dark-switching






Switching output	Connection	Model name	Part no.
PNP	Cable, 3-wire	WL8-P1131	6033177
	Connector M8, 3-pin	WL8-P2131	6033180
	Connector M8, 4-pin	WL8-P2231	6033182
NPN	Cable, 3-wire	WL8-N1131	6033176
	Connector M8, 3-pin	WL8-N2131	6033179
	Connector M8, 4-pin	WL8-N2231	6033181

Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 10 m
- **Switching mode:** light/dark-switching

Switching output	Connection	Model name	Part no.
PNP	Cable, 3-wire	WSE8-P1131	6035581
	Connector M8, 3-pin	WSE8-P2131	6035582
	Connector M8, 4-pin	WSE8-P2231	6035583
NPN	Cable, 3-wire	WSE8-N1131	6035578
	Connector M8, 3-pin	WSE8-N2131	6035579
	Connector M8, 4-pin	WSE8-N2231	6035580

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Stainless steel	BEF-W100-A	5311520
				Steel, zinc coated	BEF-W100-B	5311521
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
	Terminal and align- ment brackets	Universal terminal systems	–	Steel, zinc coated	BEF-MS12G-A	4056054
				Stainless steel (1.4571)	BEF-MS12G-NB	4058915
				Aluminum	BEF-RMC-D12	5321878



At a glance

- Laser class 1
- Background suppression
- Standard miniature housing with M3 threaded mounting holes
- Switching frequency up to 2 kHz
- Light/dark switching via rotary switch
- Mounting bracket BEF-W100-A is included with delivery

Your benefits

- Highly flexible design and operational capabilities due to precise background suppression
- Reliable detection of small objects, regardless of color or surface qualities
- Rapid switching frequency reliably detects objects travelling at high speeds which allows to optimize the production processes
- Highly visible laser light spot simplifies alignment
- All necessary accessories are included with delivery, reducing installation and procurement costs

→ www.mysick.com/en/W8_Laser

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W8_Laser

Photoelectric proximity sensor






- **Detection principle:** background suppression
- **Switching mode:** light/dark-switching

Sensing range max. ¹⁾	Switching output	Connection	Model name	Part no.
5 mm ... 100 mm	PNP	Cable, 3-wire	WTB8L-P1111	6033223
		Connector M8, 3-pin	WTB8L-P2111	6033225
		Connector M8, 4-pin	WTB8L-P2211	6033227
	NPN	Cable, 3-wire	WTB8L-N1111	6033222
		Connector M8, 3-pin	WTB8L-N2111	6033224
		Connector M8, 4-pin	WTB8L-N2211	6033226
30 mm ... 300 mm	PNP	Cable, 3-wire	WTB8L-P1131	6033217
		Connector M8, 3-pin	WTB8L-P2131	6033219
		Connector M8, 4-pin	WTB8L-P2231	6033221
	NPN	Cable, 3-wire	WTB8L-N1131	6033216
		Connector M8, 3-pin	WTB8L-N2131	6033218
		Connector M8, 4-pin	WTB8L-N2231	6033220

¹⁾ PL80A.

Accessories

B

	Accessory category	Accessory type	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	Stainless steel	BEF-W100-A	5311520
			Steel, zinc coated	BEF-W100-B	5311521
	Terminal and alignment brackets	Universal terminal systems	Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp)	BEF-KHS-N08N	2051616
			Stainless steel (1.4571)	BEF-MS12G-NB	4058915
			Aluminum	BEF-RMC-D12	5321878



At a glance

- Autocollimation
- Standard miniature housing with M3 threaded mounting holes
- Light/dark switching selectable via rotary switch
- Adjustable sensing range
- All necessary accessories (BEF-W100-A and P250) are included with delivery

Your benefits

- Reliable object detection of transparent objects even at the shortest distances (no blind spot) or through narrow gaps
- Highly visible light spot makes alignment quick and easy
- Reliable detection of all materials, including small and/or transparent objects, min. attenuation 15 %
- All necessary accessories (bracket and reflector) are included with delivery, reducing installation and procurement costs
- M3 mounting hole provides quick installation

→ www.mysick.com/en/W8G

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W8G

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Sensing range max.:** 0 m ... 3 m (PL80A.)
- **Switching mode:** light/dark-switching
- **Items supplied:** stainless steel mounting bracket (1.4301/304) BEF-W100-A, Reflector P250F

Switching output	Connection	Model name	Part no.
PNP	Cable, 3-wire	WL8G-P1131	6033184
	Connector M8, 3-pin	WL8G-P2131	6033186
	Connector M8, 4-pin	WL8G-P2231	6033188
NPN	Cable, 3-wire	WL8G-N1131	6033183
	Connector M8, 3-pin	WL8G-N2131	6033185
	Connector M8, 4-pin	WL8G-N2231	6033187

B



At a glance

- Rugged IP 69K stainless steel housing 1.4404/316L
- Front screen made of high-performance PPSU plastic that is resistant to heat and chemicals
- Potentiometer made of mechanically stable high-performance PEEK (polyether ketone) plastic
- Constructed with FDA-approved materials
- Well-defined, highly visible light spot
- M3 threaded mounting holes and stainless steel mounting bracket (1.4301/304) included with delivery

Your benefits

- High reliability due to an IP 69K stainless steel housing, which withstands aggressive cleaning agents or cooling lubricants
- Quick and easy mounting due to universally compatible M3 threaded mounting holes
- Compact housing saves space (equal to W8 plastic version)
- Highly visible light spot provides easy alignment
- All necessary accessories are included, which simplifies installation

→ www.mysick.com/en/W8_Inox

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W8_Inox

Photoelectric proximity sensor

- **Switching mode:** light/dark-switching

Detection principle	Sensing range max. ¹⁾	Switching output	Connection	Model name	Part no.
Energetic	0 mm ... 950 mm	PNP	Cable, 3-wire	WTE8-P1131V	6041473
			Connector M8, 4-pin	WTE8-P2231V	6041475
			Cable with plug, M12, 4-pin	WTE8-P3331V	6041476
		NPN	Cable, 3-wire	WTE8-N1131V	6041469
			Connector M8, 4-pin	WTE8-N2231V	6041471
			Cable with plug, M12, 4-pin	WTE8-N3331V	6041472
Background suppression	5 mm ... 150 mm	PNP	Cable, 3-wire	WTB8-P1111V	6041457
			Connector M8, 4-pin	WTB8-P2211V	6041459
			Cable with plug, M12, 4-pin	WTB8-P3311V	6041460
		NPN	Cable, 3-wire	WTB8-N1111V	6041453
			Connector M8, 4-pin	WTB8-N2211V	6041455
			Cable with plug, M12, 4-pin	WTB8-N3311V	6041456
	10 mm ... 500 mm	PNP	Cable, 3-wire	WTB8-P1131V	6041465
			Connector M8, 4-pin	WTB8-P2231V	6041467
			Cable with plug, M12, 4-pin	WTB8-P3331V	6041468
		NPN	Cable, 3-wire	WTB8-N1131V	6041461
			Connector M8, 4-pin	WTB8-N2231V	6041463
			Cable with plug, M12, 4-pin	WTB8-N3331V	6041464

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Sensing range max.:** 0.01 m ... 6.5 m (PLA80A.)
- **Switching mode:** light/dark-switching










Switching output	Connection	Model name	Part no.
PNP	Cable, 3-wire	WL8-P1131V	6041481
	Connector M8, 4-pin	WL8-P2231V	6041483
	Cable with plug, M12, 4-pin	WL8-P3331V	6041484
NPN	Cable, 3-wire	WL8-N1131V	6041477
	Connector M8, 4-pin	WL8-N2231V	6041479
	Cable with plug, M12, 4-pin	WL8-N3331V	6041480

Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 45 m
- **Switching mode:** light/dark-switching

Switching output	Connection	Model name	Part no.
PNP	Cable, 3-wire	WSE8-P1131V	6041489
	Connector M8, 4-pin	WSE8-P2231V	6041491
	Cable with plug, M12, 4-pin	WSE8-P3331V	6041492
NPN	Cable, 3-wire	WSE8-N1131V	6041485
	Connector M8, 4-pin	WSE8-N2231V	6041487
	Cable with plug, M12, 4-pin	WSE8-N3331V	6041488

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Other mounting accessories	–	–	–	BEF-MR18G-NA	4065853
	Reflectors	Angular	47 mm x 47 mm	Plastic	P250 CHEM	5321097
		Fine triple reflectors	18 mm x 18 mm	–	PL10F CHEM	5321636
		Special reflectors	15 mm x 38 mm	–	PL20 CHEM	5321089
			25 mm x 25 mm	Stainless steel V4A (1.4404, 316L)	PLH25-D12	2063404
					PLH25-M12	2063403
			14 mm x 14 mm	Stainless steel V4A (1.4404, 316L)	PLV14-A	2063405
	Terminal and alignment brackets	Universal terminal systems	–	Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp)	BEF-KHS-N08N	2051616
				Stainless steel (1.4571)	BEF-MS12G-NA	4058914
				Aluminum	BEF-RMC-D12	5321878



At a glance

- PinPoint LED for a bright, precise light spot
- Durable metal threaded inserts
- SICK ASIC technology - the result of decades of experience in photoelectric sensors
- Large, user-friendly potentiometer
- Large, bright indicator LEDs
- IP 67 enclosure rating

Your benefits

- Easy alignment and precise object detection due to a highly visible PinPoint LED
- Quick and easy mounting and high durability due to threaded metal inserts
- SICK ASIC technology provides high performance and excellent reliability
- Easy to adjust due to large, user-friendly potentiometers
- Easy to monitor due to large, bright indicator LEDs
- Easy installation with SICK accessories

→ www.mysick.com/en/G6

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/G6

Photoelectric proximity sensor

- **Switching mode:** light/dark-switching

Detection principle	Sensing range max. ¹⁾	Output function	Adjustment	Connection	Model name	Part no.
Energetic	300 mm	PNP	Potentiometer, 5-turn	Cable, 3-wire	GTE6-P1212	1051783
				Connector M8, 4-pin	GTE6-P4212	1051781
		NPN	Potentiometer, 5-turn	Cable with plug, M12, 4-pin	GTE6-P7212	1053628
				Cable, 3-wire	GTE6-N1212	1051784
Background suppression	5 mm ... 250 mm	PNP	Potentiometer	Connector M8, 4-pin	GTE6-N4212	1051782
				Cable with plug, M8, 3-pin	GTB6-P5211	1059333
			Potentiometer, 5-turn	Cable with plug, M8, 4-pin	GTB6-P6211	1059320
				Cable with plug, M12, 4-pin	GTB6-P7211	1057705
		NPN	Potentiometer	Cable, 3-wire	GTB6-P1212	1052444
				Connector M8, 4-pin	GTB6-P4212	1052442
			Potentiometer	Cable with plug, M8, 4-pin	GTB6-N6212	1058769
			Potentiometer, 5-turn	Cable, 3-wire	GTB6-N1212	1052445
				Connector M8, 4-pin	GTB6-N4212	1052443

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Sensing range max.:** ≤ 7.2 m (PL80A.)

Output function	Switching mode	Adjustment	Connection	Model name	Part no.
PNP	Light/dark-switching	–	Cable, 3-wire	GL6-P1112	1051779
			Connector M8, 4-pin	GL6-P4112	1051777
			Connector M12, 4-pin	GL6-P7112	1053590
	Light-switching	Potentiometer, 270°	Connector M8, 4-pin	GL6-P4211	1059241
				GL6G-P4211 ¹⁾	1059632
			Connector M12, 4-pin	GL6-P4511	1052634
				GL6-P7511	1056039
NPN	Light/dark-switching	–	Cable, 3-wire	GL6-N1112	1051780
			Connector M8, 4-pin	GL6-N4112	1051778
		Potentiometer, 270°	Cable, 3-wire	GL6G-N1211 ¹⁾	1059925
				GL6-N1211	1059923






¹⁾ Sensor for detection of transparent objects

Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 15 m
- **Switching mode:** light/dark-switching

Output function	Connection	Model name	Part no.
PNP	Cable, 3-wire	GSE6-P1112	1052452
	Connector M8, 4-pin	GSE6-P4112	1052450
	Cable with plug, M8, 4-pin	GSE6-P6112	1054850
	Cable with plug, M12, 4-pin	GSE6-P7112	1054831
NPN	Cable, 3-wire	GSE6-N1112	1052453
	Connector M8, 4-pin	GSE6-N4112	1052451
	Cable with plug, M8, 4-pin	GSE6-N6112	1054852
	Cable with plug, M12, 4-pin	GSE6-N7112	1054835




Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	–	Stainless steel 1.4571	BEF-SW-W4S	2051497
	Mounting brackets/plates	Mounting brackets	–	Stainless steel	BEF-W100-A	5311520
				Steel, zinc coated	BEF-W100-B	5311521
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865

¹⁾ Customizable length by sheet. Width max. 74.9 cm, length max. 91.4 cm.

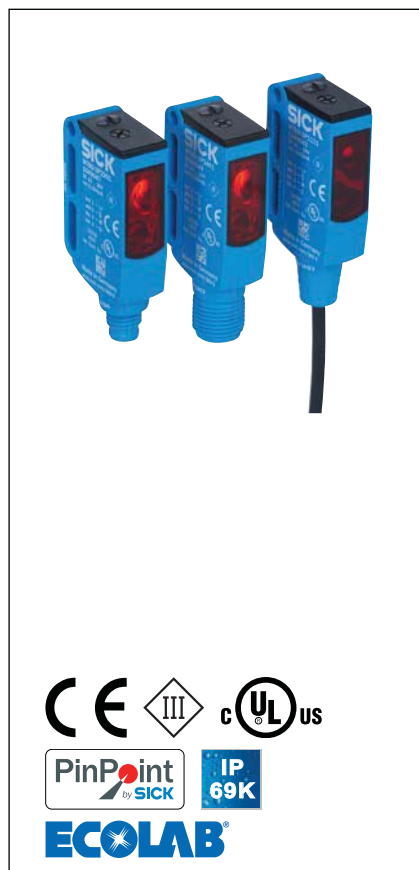
²⁾ Customizable length by roll. Width 5 cm, length max. 22.8 m.

B

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Reflectors	Reflective tape	91.4 cm x 74.9 cm ¹⁾	–	REF-DG-K	4019634
			22.8 m x 5 cm ²⁾	–	REF-PLUS-50-K	4051185
	Terminal and alignment brackets	Universal terminal systems	–	Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N08	2051607

¹⁾ Customizable length by sheet. Width max. 74.9 cm, length max. 91.4 cm.

²⁾ Customizable length by roll. Width 5 cm, length max. 22.8 m.



At a glance

- High-performance sensor in ultra-rugged VISTAL™ housing
- PinPoint LED for highly visible and precise light spot
- Two emitter LEDs for best-in-class background suppression
- Variable mounting with M3 or M4 hole pattern
- Wide range of connection options

Your benefits

- Robustness with the VISTAL™ housing
- Best in class performance
- Wide variance in connection, routing and optic

→ www.mysick.com/en/W9-3

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W9-3

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Switching mode:** light/dark-switching
- **Adjustment:** adjustable potentiometer, 5-turn

Mounting hole	Type of light	Sensing range max. ¹⁾	Switching output	Connection	Model name	Part no.
M3	Visible red light	20 mm ... 350 mm	PNP	Cable, 4-wire	WTB9-3P1161	1049043
				Connector M8, 4-pin	WTB9-3P2261	1049047
				Connector M12, 4-pin	WTB9-3P2461	1049049
				Cable with plug, M12, 4-pin	WTB9-3P3461	1049051
	Infrared light	20 mm ... 500 mm	NPN	Connector M12, 4-pin	WTB9-3N2461	1049053
				Cable, 4-wire	WTB9-3N1161	1049052
		20 mm ... 800 mm	PNP	Connector M8, 4-pin	WTB9-3P2211	1049045
				Connector M12, 4-pin	WTB9-3P2411	1049048
M4	Visible red light	20 mm ... 350 mm	PNP	Connector M8, 4-pin	WTB9-3P2211S14	1052171
				Connector M12, 4-pin	WTB9-3P2411S14	1052172
	Infrared light	20 mm ... 500 mm	NPN	Connector M8, 4-pin	WTB9-3P2211S14	1052172
				Connector M12, 4-pin	WTB9-3P2411S14	1052172
	Visible red light	20 mm ... 350 mm	PNP	Connector M8, 4-pin	WTB9M4-3P2261	1051889
				Connector M12, 4-pin	WTB9M4-3P2461	1051891
M4	Infrared light	20 mm ... 500 mm	NPN	Connector M8, 4-pin	WTB9M4-3N2261	1051885
				Connector M12, 4-pin	WTB9M4-3N2461	1051888

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Switching mode:** light/dark-switching

Mounting hole	Sensing range max. ¹⁾	Switching output	Adjustment	Connection	Model name	Part no.
M3	0 m ... 4 m	PNP	No/fix	Connector M8, 4-pin	WL9-3P2230	1049059
				Connector M12, 4-pin	WL9-3P2430	1049062
		NPN	No/fix	Connector M8, 4-pin	WL9-3N2230	1049071
				Connector M12, 4-pin	WL9-3N2430	1049073
	0 m ... 5 m	PNP	Adjustable Teach	Cable, 4-wire	WL9-3P1132	1049056
				Connector M8, 4-pin	WL9-3P2232	1049060
				Connector M12, 4-pin	WL9-3P2432	1049063
				Cable with plug, M12, 4-pin	WL9-3P3432	1049067
		NPN	Adjustable Teach	Cable, 4-wire	WL9-3N1132	1049070
				Connector M12, 4-pin	WL9-3N2432	1049074
M4	0 m ... 5 m	PNP	Adjustable Teach	Connector M8, 4-pin	WL9M4-3P2232	1051895
				Connector M12, 4-pin	WL9M4-3P2432	1051896
		NPN	Adjustable Teach	Connector M8, 4-pin	WL9M4-3N2232	1051893





¹⁾ PL80A.





Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 10 m
- **Switching mode:** light/dark-switching
- **Adjustment:** no/fix

Mounting hole	Switching output	Connection	Model name	Part no.
M3	PNP	Connector M8, 4-pin	WSE9-3P2230	1049076
		Connector M12, 4-pin	WSE9-3P2430	1049077
	NPN	Connector M12, 4-pin	WSE9-3N2430	1049080
M4	PNP	Connector M8, 4-pin	WSE9M4-3P2230	1051912
	NPN	Connector M8, 4-pin	WSE9M4-3N2230	1052938

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Masks	–	–	–	BL-9-2	4033253
	Mounting brackets/plates	Mounting plates	–	PMMA, Brass (Br)	BEF-GPM3-W9	4066039
		Mounting brackets	–	Steel, zinc coated	BEF-WN-W9-2	2022855
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			28 mm x 56 mm	PMMA/ABS	PL30A	1002314

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Reflectors	Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Reflective tape	22.8 m x 25 mm	–	REF-PLUS-R25	5319929
			22.8 m x 50 mm	–	REF-PLUS-R50	5319981

B



At a glance

- High-performance sensor in ultra-rugged VISTAL™ housing
- Best-in-class optical performance for transparent object detection
- Continuous threshold adaption
- PinPoint LED for highly visible and precise light spot
- Variable mounting with M3 or M4 hole pattern
- Wide range of connection options

Your benefits

- Tough VISTAL™ housing provides reliable installation and operation
- Best-in-class optical performance
- Wide variety of connection, mounting and optical possibilities to solve many different applications

→ www.mysick.com/en/W9-3_Glass

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information









Other models available at www.mysick.com/en/W9-3_Glass

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Sensing range max.:** 0 m ... 5 m (PL80A.)
- **Switching mode:** light/dark-switching
- **Adjustment:** teach

Mounting hole	Switching output	Connection	Model name	Part no.
M3	PNP	Connector M8, 4-pin	WL9G-3P2232	1049082
		Connector M12, 4-pin	WL9G-3P2432	1049083
		Cable, 4-wire	WL9G-3P1132	1049081
		Cable with plug, M12, 4-pin	WL9G-3P3432	1049084
M4	NPN	Cable, 4-wire	WL9G-3N1132	1049085
	PNP	Connector M8, 4-pin	WL9M4G-3P2232	1051899
		Connector M12, 4-pin	WL9M4G-3P2432	1051900
		Cable, 4-wire	WL9M4G-3P1132	1051898
		Cable with plug, M12, 4-pin	WL9M4G-3P3432	1051910
M4	NPN	Cable, 4-wire	WL9M4G-3N1132	1051897

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting plates	–	PMMA, Brass (Br)	BEF-GPM3-W9	4066039
		Mounting brackets	–	Steel, zinc coated	BEF-WN-W9-2	2022855
	Reflectors	Fine triple reflectors	47 mm x 47 mm	PMMA/ABS	P250F	5308843
			18 mm x 18 mm	PMMA/ABS	PL10F	5311210
			16 mm x 38 mm	PMMA/ABS	PL20F	5308844
		Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Reflective tape	22.8 m x 25 mm	–	REF-PLUS-R25	5319929
			22.8 m x 50 mm	–	REF-PLUS-R50	5319981

B



At a glance

- Best-in-class optical performance due to superior OES technology
- Autocollimation with retro-reflective sensors
- Background and foreground suppression with second emitter LED on proximity sensors
- Highly visible, precise light spot and high-energy IR transmitters
- Rugged die-cast zinc housing, optional with Teflon® coating
- Connection via cable or rotatable connector
- Mounting options with through holes, base blind holes, oblong through holes and dovetail
- IO-Link communication available (optional)

Your benefits

- Reliable detection due to superior ASIC (application-specific integrated circuit) technology and immunity to optical interference factors from the industrial environment
- PinPoint LED technology provides a bright, small and precise light spot that enables quick and easy sensor alignment
- Precise switching characteristics ensure reliable object detection, reducing downtime caused by re-adjusting sensors during recipe changes
- Wide range of products enclosed in a rugged metal housing enables application flexibility in a broad range of industrial environments
- Remote diagnostics and maintenance using IO-Link reduces overall down-time (optional)
- Flexible mounting options reduce installation time
- Easy installation using SICK accessories

→ www.mysick.com/en/W12-3

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W12-3

Photoelectric proximity sensor

- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Detection principle	Type of light	Sensing range max. ¹⁾	Switching output	Adjustment	Model name	Part no.
Foreground suppression	Visible red light	30 mm ... 175 mm	PNP	Adjustable potentiometer, 5-turn	WTF12-3P2431	1041404
				Adjustable Teach	WTF12-3P2433	1041405
		30 mm ... 500 mm	NPN	Adjustable potentiometer, 5-turn	WTF12-3N2431	1041408
				Adjustable Teach	WTF12-3N2433	1041409
	Infrared light	20 mm ... 350 mm	PNP	Adjustable potentiometer, 5-turn	WTF12-3P2441	1041400
				Adjustable Teach	WTF12-3P2443	1041401
Background suppression	Visible red light	20 mm ... 350 mm	PNP	Adjustable potentiometer, 5-turn	WTF12-3P2431	1041411
				Adjustable Teach	WTF12-3P2433	1041412
		20 mm ... 600 mm	NPN	Adjustable potentiometer, 5-turn	WTF12-3N2431	1041411
				Adjustable Teach	WTF12-3N2433	1041412
	Infrared light	20 mm ... 350 mm	PNP	Adjustable potentiometer, 5-turn	WTF12-3P2411	1041422
				Adjustable Teach	WTF12-3P2413	1041423
	Infrared light	20 mm ... 600 mm	PNP	Adjustable potentiometer, 5-turn	WTF12-3P2411	1041427
				Adjustable Teach	WTF12-3P2413	1041428

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Type of light.:** visible red light
- **Sensing range max.:** 0 m ... 7 m (PL80A.)
- **Switching mode:** light/dark-switching
- **Adjustment:** adjustable potentiometer, 5-turn
- **Connection:** connector M12, 4-pin









Switching output	Model name	Part no.
PNP	WL12-3P2431	1041436
NPN	WL12-3N2431	1041440

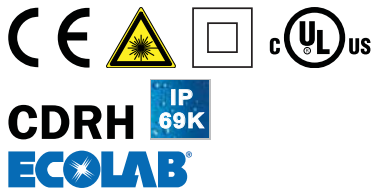
Through-beam photoelectric sensor

- **Type of light.:** visible red light
- **Sensing range max.:** 0 m ... 20 m
- **Switching mode:** light/dark-switching
- **Adjustment:** adjustable potentiometer, 5-turn
- **Connection:** connector M12, 4-pin

Switching output	Model name	Part no.
PNP	WSE12-3P2431	1041459
NPN	WSE12-3N2431	1041462

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Stainless steel	BEF-WG-W12	2013942
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			28 mm x 56 mm	PMMA/ABS	PL30A	1002314
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Reflective tape	22.8 m x 25 mm	–	REF-PLUS-R25	5319929
			22.8 m x 50 mm	–	REF-PLUS-R50	5319981



At a glance

- Best-in-class retro-reflective laser performance in a metal housing
- Teflon® coating available
- Precise autocollimation optics
- Adjustable focus on retro-reflective sensors
- High switching frequency of 2.5 kHz
- Connection via cable or rotatable connector
- Mounting options with through holes, blind holes, oblong holes and dovetail
- Laser protection class 1 or 2

Your benefits

- Reliable object detection of small objects due to superior ASIC (application-specific integrated circuit) technology combined with innovative laser technology
- Red light laser technology provides quick and easy alignment of sensor
- Rugged metal housing (available with Teflon® coating) withstands harsh environments
- Laser protection class 1 or 2 for eye safety
- Resistance to optical interference reduces false readings and downtime
- Rotatable connector provides easy installation

→ www.mysick.com/en/W12-2_Laser

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W12-2_Laser

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Sensing range max.:** 30 mm ... 200 mm (Objects to be sensed with 18 % reflectivity (based on DIN 5033 white standard))
- **Switching output:** PNP, NPN
- **Switching mode:** light-switching, Dark-switching
- **Adjustment:** adjustable Potentiometer
- **Connection:** connector M12, 5-pin

Housing material	Laser class	Model name	Part no.
Metal	II	WT12L-2B550	1017904
	I	WT12L-2B551	1047958
PTFE-coating	II	WT12L-2B550T01	1018582

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Sensing range max.:** 0 m ... 18 m (PL80A.)
- **Switching output:** PNP, NPN
- **Switching mode:** light-switching, Dark-switching
- **Adjustment:** adjustable Potentiometer
- **Connection:** connector M12, 5-pin

Laser class	Model name	Part no.
II	WL12L-2B530	1018252
I	WL12L-2B531	1047959

Through-beam photoelectric sensor

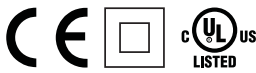
- **Connection:** connector M12, 4-pin

Sensing range max.	Laser class	Switching output	Adjustment	Model name	Part no.
0 m ... 10 m	II	PNP	Adjustable Potentiometer	WS/WE12L-2P410	1018256
		NPN	Adjustable Potentiometer	WS/WE12L-2N410	1018257
0 m ... 80 m	II	PNP	No/fix	WS/WE12L-2P430	1018254
	I		–	WS/WE12L-2P431	1047960
	II	NPN	No/fix	WS/WE12L-2N430	1018255

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Stainless steel	BEF-WG-W12	2013942
	Reflectors	Angular	15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			28 mm x 56 mm	PMMA/ABS	PL30A	1002314
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			47 mm x 47 mm	PMMA/ABS	P250	5304812
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Fine triple reflectors	16 mm x 38 mm	PMMA/ABS	PL20F	5308844
			18 mm x 18 mm	PMMA/ABS	PL10F	5311210
			47 mm x 47 mm	PMMA/ABS	P250F	5308843

B



At a glance

- Rugged die-cast zinc housing with optional Teflon® coating
- Reliable detection of transparent objects
- Precise autocollimation optics
- Robust sensors for industrial use
- Precise PinPoint LED technology with highly visible light spot
- Dovetail mounting – mounting holes and oblong holes
- Highly visible status LEDs

Your benefits

- Reliable detection of transparent objects - from PET bottles to transparent film - due to superior ASIC (application-specific integrated circuit) technology
- High immunity to ambient conditions reduces false readings
- Red PinPoint LED provides quick and easy alignment of sensor
- Precise switching characteristics, fast response times and high performance ensure superior reliability and productivity in nearly every application type
- Withstands mechanical, thermal, chemical and electromagnetic factors, providing increased industrial reliability
- Flexible mounting and installation due to rotatable connector and versatile mounting options
- IO-Link enables quick remote diagnostics and maintenance (optional)

→ www.mysick.com/en/W12G

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W12G

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Sensing range max.:** 0 m ... 4 m (PL80A.)
- **Housing material:** metal
- **Connection:** connector M12, 5-pin

Continuous threshold adaption	Switching output	Switching mode	Adjustment	Model name	Part no.
✓	PNP	Light/dark-switching	Teach-in button	WL12G-3P2572	1053535
	NPN	Light/dark-switching	Teach-in button	WL12G-3N2572	1053530
–	PNP, NPN	Light-switching, Dark-switching	Potentiometer, 11-turn	WL12G-3B2531	1041456

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Stainless steel	BEF-WG-W12	2013942
	Reflectors	Angular	15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			28 mm x 56 mm	PMMA/ABS	PL30A	1002314
			47 mm x 47 mm	PMMA/ABS	P250	5304812
		Fine triple reflectors	16 mm x 38 mm	PMMA/ABS	PL20F	5308844
			18 mm x 18 mm	PMMA/ABS	PL10F	5311210
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			47 mm x 47 mm	PMMA/ABS	P250F	5308843
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865

B

B



At a glance

- Best-in-class optical performance due to superior OES technology
- Autocollimation in retro-reflective sensors
- Background and foreground suppression with second emitter LED in proximity sensors
- Highly visible, bright, precise light spot
- Rugged metal housing, optional with Teflon® coating
- Connection via cable or rotatable connector
- Mounting options with through holes, base blind holes, oblong through holes and dovetail
- IO-Link communication available (optional)

Your benefits

- Reliable detection due to superior ASIC (application-specific integrated circuit) technology and immunity to optical interference factors from the industrial environment
- PinPoint LED technology for a bright, small and precise light spot, enabling quick and easy sensor alignment
- Precise switching characteristics ensure reliable object detection, reducing downtime caused by re-adjusting sensors during recipe changes
- Wide range of products enclosed in a rugged metal housing enables application flexibility in a broad range of industrial environments
- Uniform design for entire product family regardless of connection, which ensures simple machine integration
- Quick and easy mounting due to several mounting options
- Easy installation using SICK accessories

→ www.mysick.com/en/W12_Teflon

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W12_Teflon

Photoelectric proximity sensor

- **Switching output:** PNP
- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Detection principle	Type of light	Sensing range max. ¹⁾	Adjustment	Model name	Part no.
Foreground suppression	Visible red light	30 mm ... 150 mm	Adjustable potentiometer, 5-turn	WTF12-3P2431T01	1041407
Background suppression	Visible red light	20 mm ... 350 mm	Adjustable potentiometer, 5-turn	WTB12-3P2431T01	1041414
	Infrared light	20 mm ... 600 mm	Adjustable Teach	WTB12-3P2433T01	1048278
			Adjustable potentiometer, 5-turn	WTB12-3P2411T01	1041425

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Type of light:** visible red light

Sensing range max. ¹⁾	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
0 m ... 4 m	PNP, NPN	Light-switching, Dark-switching	Adjustable potentiometer, 11-turn	Connector M12, 5-pin	WL12G-3B2531T01	1041458
0 m ... 7 m	PNP	Light/dark-switching	Adjustable potentiometer, 5-turn	Connector M12, 4-pin	WL12-3P2431T01	1041439
	NPN	Light/dark-switching	Adjustable potentiometer, 5-turn	Connector M12, 4-pin	WL12-3N2431T01	1041443









¹⁾ PL80A.

Through-beam photoelectric sensor

- **Type of light:** visible red light

Sensing range max.	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
0 m ... 20 m	PNP	Light/dark-switching	Adjustable potentiometer, 5-turn	Connector M12, 4-pin	WSE12-3P2431T01	1041461

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Stainless steel	BEF-WG-W12	2013942
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			28 mm x 56 mm	PMMA/ABS	PL30A	1002314
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Reflective tape	22.8 m x 25 mm	–	REF-PLUS-R25	5319929
			22.8 m x 50 mm	–	REF-PLUS-R50	5319981

B



At a glance

- Uniform housing, mounting and connection systems
- Rugged sensors for industrial use
- PinPoint LED technology provides highly visible light spot
- Space-saving plastic housing in chemically, thermally or mechanically resistant designs
- Dovetail mounting – mounting holes and oblong holes
- Highly visible 360° status LEDs

Your benefits

- Reliable object detection due to superior ASIC technology with a high immunity to ambient light
- PinPoint technology provides a bright, small and precise light spot that enables quick and easy sensor alignment
- Precise switching characteristics ensure high performance even in changing application conditions
- Highly visible 360° status LEDs provide quick and easy setup
- Compact and rugged housing design easily fits in tight spaces
- Uniform housing, mounting and connection systems simplify installation
- Versatile mounting options, including dovetail, side mounting and standard mounting holes enable quick installation

→ www.mysick.com/en/W11-2

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W11-2

Photoelectric proximity sensor

- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Detection principle	Sensing range max. ¹⁾	Switching output	Adjustment	Model name	Part no.
Foreground suppression	35 mm ... 350 mm	PNP	Adjustable potentiometer, 5-turn	WTF11-2P2431	1041380
Energetic	40 mm ... 1,000 mm	PNP	Adjustable Teach	WTE11-2P2432	1041381
		NPN	Adjustable Teach	WTE11-2N2432	1041383
Background suppression	20 mm ... 350 mm	PNP	Adjustable potentiometer, 5-turn	WTB11-2P2431	1041376
		NPN	Adjustable potentiometer, 5-turn	WTB11-2N2431	1041378
	30 mm ... 1,100 mm	PNP	Adjustable potentiometer, 5-turn	WTB11-2P2461	1044442
		NPN	Adjustable potentiometer, 5-turn	WTB11-2N2461	1051818

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standards optics
- **Sensing range max.:** 0.15 m ... 10 m (PL80A.)
- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Switching output	Adjustment	Model name	Part no.
PNP	No/fix	WL11-2P2430	1041385
	Adjustable Teach	WL11-2P2432	1048542
NPN	No/fix	WL11-2N2430	1041387









Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 20 m
- **Switching mode:** light/dark-switching
- **Adjustment:** no/fix
- **Connection:** connector M12, 4-pin

B

Switching output	Model name	Part no.
PNP	WSE11-2P2430	1041394
NPN	WSE11-2N2430	1041396

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Stainless steel	BEF-WG-W12	2013942
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			28 mm x 56 mm	PMMA/ABS	PL30A	1002314
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Reflective tape	22.8 m x 25 mm	–	REF-PLUS-R25	5319929
			22.8 m x 50 mm	–	REF-PLUS-R50	5319981

B



At a glance

- Retro-reflective for detection of clear material objects
- Rugged housing for industrial use
- PinPoint LED technology with a highly visible light spot
- Space-saving plastic housing in chemically, thermally or mechanically resistant designs
- Dovetail mounting – standard mounting holes and oblong holes
- Highly visible 360° status LEDs
- Simple sensitivity adjustment via potentiometer

Your benefits

- Superior ASIC ensures reliable detection of transparent objects
- PinPoint LED technology provides a bright, small and precise light spot that enables quick and easy sensor alignment
- Precise switching characteristics ensure high performance even in changing application conditions
- Highly visible 360° status LEDs provide fast and easy commissioning
- Rugged housing design withstands harsh environments, reducing downtime and maintenance effort
- Uniform housing, mounting and connection systems reduce mounting and installation time
- High immunity to optical interferences reduces false readings and downtime

→ www.mysick.com/en/W11G-2

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W11G-2





Photoelectric retro-reflective sensor

Detection principle	Sensing range max. ¹⁾	Switching frequency	Switching output	Switching mode	Adjustment	Connection	Model name	Part no.
Autocolimation	0 m ... 4 m	1,500 Hz	PNP, NPN	Light/dark-switching	Adjustable, potentiometer, 11-turn	Connector M12, 5-pin	WL11G-2B2531	1041390

¹⁾ PL80A.

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	–	Stainless steel	BEF-WG-W12	2013942
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			28 mm x 56 mm	PMMA/ABS	PL30A	1002314

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Reflectors	Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Reflective tape	22.8 m x 25 mm	–	REF-PLUS-R25	5319929
			22.8 m x 50 mm	–	REF-PLUS-R50	5319981



B



At a glance

- Outstanding background suppression with OES3 technology
- Highly visible and precise light spot due to PinPoint LED in selected products
- Slim, durable plastic housing
- Complete sensor family with proximity, retro-reflective and through-beam variants

Your benefits

- Reliable object detection at a cost-effective price
- PinPoint LED technology provides a highly visible red light that enables quick and easy setup
- Broad product range gives users a variety of choices to fit their application
- Rugged plastic housing in a slim design simplifies installation
- Quick and easy installation using SICK accessories saves time

→ www.mysick.com/en/W14-2

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W14-2

Photoelectric proximity sensor

- **Switching output:** PNP
- **Switching mode:** light/dark-switching

Detection principle	Type of light	Sensing range max. ¹⁾	Adjustment	Connection	Model name	Part no.
Energetic	Infrared light	50 mm ... 1,500 mm	Adjustable Teach	Cable, 4-wire	WT14-2P111	1026058
				Connector M12, 4-pin	WT14-2P411	1026059
Background suppression	Visible red light	20 mm ... 250 mm	Adjustable potentiometer, 4-turn	Cable, 4-wire	WT14-2P132	1026055
				Connector M12, 4-pin	WT14-2P432	1026056
	Infrared light	20 mm ... 500 mm	Adjustable potentiometer, 4-turn	Cable, 4-wire	WT14-2P122	1026051
				Connector M12, 4-pin	WT14-2P422	1026052
		20 mm ... 1,300 mm	Adjustable potentiometer, 4-turn	Connector M12, 4-pin	WT14-2P422S03	1041679
					WT14-2P432S08	1045104

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Type of light:** visible red light
- **Switching output:** PNP
- **Switching mode:** light/dark-switching

Sensing range max. ¹⁾	Adjustment	Connection	Model name	Part no.
0.15 m ... 6 m	No/fix	Cable, 4-wire	WL14-2P130	1026050
		Connector M12, 4-pin	WL14-2P430	1026049
0.15 m ... 17 m	Adjustable Teach	Connector M12, 4-pin	WL14-2P431	1050271
	No/fix	Connector M12, 4-pin	WL14-2P430S07	1045089









¹⁾ PL80A.

Through-beam photoelectric sensor

- **Type of light:** visible red light
- **Sensing range max.:** 0 m ... 15 m
- **Switching output:** PNP
- **Switching mode:** light/dark-switching
- **Adjustment:** no/fix

Connection	Model name	Part no.
Cable, 4-wire	WS/WE14-2P130	1026430
Connector M12, 4-pin	WS/WE14-2P430	1026431

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	–	Zinc plated steel (protective housing), Diecast zinc (clamp)	BEF-SG-W14	2058124
	Mounting brackets/plates	Mounting brackets	–	Steel, zinc coated	BEF-WN-W14	2019084
					BEF-WN-W18	2009317
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
	Terminal and alignment brackets	Universal terminal systems	–	Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N03	2051609

B



At a glance

- Best-in-class optical performance due to superior OES technology
- Autocollimation optics
- Background suppression with second sender LED
- Slim, durable plastic housing
- IO-Link communication
- Operation via double teach-in push-button or potentiometer
- Wide variety of options for operation, connection, and optics

Your benefits

- Reliable object detection due to best-in-class background suppression and resistance to ambient light
- A wide range of product variants provides increased user flexibility
- Less downtime in industrial environments
- IO-Link enables remote diagnostics and maintenance as well as application-specific add-on functionalities
- Quick and easy installation using SICK accessories saves time

→ www.mysick.com/en/W18-3

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W18-3

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Switching output:** PNP
- **Switching mode:** light/dark-switching

Sensing range max. ¹⁾	Type of light	Adjustment	Connection	Model name	Part no.
10 mm ... 600 mm	Visible red light	Adjustable potentiometer, 4-turn	Connector M12, 4-pin	WT18-3P430	1025896
		Adjustable Teach	Connector M12, 4-pin	WT18-3P431	1026032
10 mm ... 700 mm	Infrared light	Adjustable potentiometer, 4-turn	Connector M12, 4-pin	WT18-3P410	1025889
		Adjustable Teach	Cable, 4-wire	WT18-3P110	1025887
10 mm ... 1,000 mm	Infrared light	Adjustable potentiometer, 4-turn	Connector M12, 4-pin	WT18-3P411	1026031
		Adjustable Teach	Connector M12, 4-pin	WT18-3P420	1025905

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** autocollimation
- **Type of light:** visible red light
- **Switching output:** PNP
- **Switching mode:** light/dark-switching
- **Adjustment:** adjustable potentiometer, 1-turn

Sensing range max. ¹⁾	Connection	Model name	Part no.
0 m ... 2 m	Cable with plug, M12, 4-pin	WL18-3P030S07	1042484
0 m ... 7 m	Connector M12, 4-pin	WL18-3P430	1025911
	Cable, 4-wire	WL18-3P130	1025909
	Cable, 5-wire	WL18-3P730	1026029







¹⁾ PL80A.

Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 20 m
- **Type of light:** visible red light
- **Switching output:** PNP
- **Switching mode:** light/dark-switching
- **Adjustment:** adjustable potentiometer, 1-turn
- **Connection:** connector M12, 4-pin

Model name	Part no.
WS/WE18-3P430	1025923
WS/WE18-3P410	1025927

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	–	Zinc plated steel (protective housing), Diecast zinc (clamp)	BEF-SG-W14	2058124
	Mounting brackets/plates	Mounting brackets	–	Steel, zinc coated	BEF-WN-W18	2009317
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865

B



At a glance

- Energetic photoelectric sensor with easy teach-in
- Photoelectric proximity sensors with background suppression
- Intense red emitting LED with consistent light spot on PinPoint models
- Retro-reflective versions provided with and without adjustment
- Teach-in pushbutton on energetic proximity versions for quick, repeatable commissioning
- Cable or M12 connection

Your benefits

- Teach-in pushbutton option for quick commissioning
- Easy alignment with PinPoint LED and laser technology
- 360° LEDs provide device status indication from multiple angles

→ www.mysick.com/en/W23-2

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W23-2

Photoelectric proximity sensor

- **Switching output:** PNP
- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Type of light	Detection principle	Sensing range max. ¹⁾	Model name	Part no.
Infrared light	Background blanking	50 mm ... 1,000 mm	WT23-2P2421	1027778
	Energetic	50 mm ... 2,300 mm	WTE23-2P2412	1027781
Visible red light	Background suppression	30 mm ... 1,100 mm	WTB23-2P2461	1044164

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)









Photoelectric retro-reflective sensor

- **Type of light:** visible red light
- **Switching output:** PNP
- **Switching mode:** light/dark-switching

Sensing range max.	Connection	Model name	Part no.
0.1 m ... 10 m	Cable, 4-wire	WL23-2P1130	1027784
0.1 m ... 10 m ¹⁾	Connector M12, 4-pin	WL23-2P2430P02	1028056
0.1 m ... 4 m ¹⁾	Connector M12, 4-pin	WL23-2P2430S01	1041159
0.1 m ... 12 m ¹⁾	Connector M12, 4-pin	WL23-2P2460	1044165
0.1 m ... 15 m ¹⁾	Connector M12, 4-pin	WL23-2P2432S02	1043566
0.1 m ... 10 m ¹⁾	Cable with plug, M12, 4-pin	WL23-2P3430	1027786

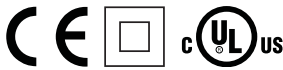
¹⁾ PL80A.

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/ tubes	–	Zinc plated steel (protective housing), Diecast zinc (clamp)	BEF-SG-W27	2039601
	Mounting brackets/ plates	Mounting brackets	–	Steel, zinc coated	BEF-WN-W23	2019085
					BEF-WN-W27	2009122
	Reflectors	Angular	15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
	Terminal and align- ment brackets	Universal terminal systems	–	Steel, zinc coated	BEF-KHS-A01	2022458
				Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N04	2051610

B

B



At a glance

- IP 69K-tested die-cast zinc housing
- Terminal chamber protected by the housing
- Immune to ambient light and cross-talk
- Selectable PNP/NPN, light/dark output
- Variants with DC voltage and universal AC/DC voltage with UL approval
- Optional test input, time delays, alarm output and front screen heating also available in high-power version.
- M12 or terminal chamber connection: both 90° rotatable

Your benefits

- Rugged metal housing that has passed IP 69K testing offers reliability and a long service life
- Immune to ambient light and crosstalk, which improves detection security
- Long-range retro-reflective and through-beam versions have a very high operating reserve, which ensures reliable operation even when if sensor is contaminated
- Ensuring reliable operation in environments with temperatures fluctuation due to standard or high-power front lens heating (prevention and reduction of condensation water on the front lens)
- Variants with DC voltage and universal AC/DC voltage provide installation flexibility

→ www.mysick.com/en/W24-2

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W24-2

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Switching mode:** light/dark-switching

Type of light	Sensing range max. ¹⁾	Switching output	Connection	Model name	Part no.
Infrared light	100 mm ... 2,500 mm	NPN, PNP	Terminal connection with M16 gland	WT24-2B210	1016931
			Connector M12, 4-pin	WT24-2B410	1016933
			Connector M12, 5-pin	WT24-2V510	1017855
			Terminal connection with M16 gland	WT24-2B220	1017882
		Relay	Connector M12, 4-pin	WT24-2B420	1017885
			Terminal connection with M16 gland	WT24-2R210	1016932
Visible red light	100 mm ... 1,200 mm	NPN, PNP	Terminal connection with M16 gland	WT24-2B240	1017813
			Connector M12, 4-pin	WT24-2B440	1016934
		Relay	Terminal connection with M16 gland	WT24-2B250	1017883
			Terminal connection with M16 gland	WT24-2R240	1017854

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Sensing range max.:** 0 m ... 22 m (PL80A.)
- **Type of light:** visible red light
- **Switching mode:** light/dark-switching








Switching output	Connection	Model name	Part no.
NPN, PNP	Connector M12, 4-pin	WL24-2B430	1017860
	Connector M12, 5-pin	WL24-2V530	1017881
	Connector M12, 4-pin	WL24-2B440	1017879
Relay	Terminal connection with M16 gland	WL24-2R230	1017857
		WL24-2R240	1017858

Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 60 m
- **Type of light:** visible red light
- **Switching mode:** light/dark-switching

Switching output	Connection	Model name	Part no.
NPN, PNP	Connector M12, 4-pin	WS/WE24-2B430	1017853
		WS/WE24-2B440	1017875
Relay	Terminal connection with M16 gland	WS/WE24-2R230	1017863
		WS/WE24-2R240	1017864

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	-	Aluminum (anodised)	OBS-W24	2015069
				Steel, zinc coated	OBW-KHS-M01	2023240
	Mounting brackets/plates	Mounting brackets	-	Stainless steel	BEF-WK-W24	4027532
				Stainless steel (1.4301)	BEF-WN-W24	2015248
	Reflectors	Angular	15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865

B



At a glance

- Intense visible red emitter LED with consistent light spot for PinPoint versions
- Long sensing ranges with IR LED achieve up to 2500 mm
- Precise background suppression for detection of multi-colored objects
- Universal DC or DC/AC supply voltage
- Operating temperature: -40 °C – +60 °C
- IO-Link provides access to sensor information and optimizes operating processes

Your benefits

- Quick and easy commissioning due to a highly visible red PinPoint LED
- PinPoint technology can replace laser photoelectric proximity sensors in some applications. No laser safety regulations and a longer operating life due to PinPoint technology
- Resistant to ambient light, optical reflections, and crosstalk from other photoelectric devices
- Less contamination due to high operating reserves, reducing downtime
- Resistant to vibrations, reducing downtime
- Operation in harsh environments with temperatures as low as -40 °C

→ www.mysick.com/en/W27-3

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W27-3

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Switching mode:** light/dark-switching

Type of light	Sensing range max. ¹⁾	Switching output	Connection	Model name	Part no.
Visible red light	30 mm ... 1,100 mm	PNP	Connector M12, 4-pin	WTB27-3P2443	1027745
		Relay	Connector Q6, 6-pin, AC/UC-coding	WTB27-3R2641	1027750
	30 mm ... 2,000 mm	PNP	Connector M12, 4-pin	WTB27-3P2461	1044163
			Cable with plug, M12, 4-pin	WTB27-3P3461	1048546
Infrared light	30 mm ... 1,600 mm	PNP	Connector M12, 4-pin	WTB27-3P2411	1025994
			Cable with plug, M12, 4-pin	WTB27-3P3411	1044438
			Connector M12, 4-pin	WTB27-3F2411	1027753
		NPN	Connector M12, 4-pin	WTB27-3E2411	1027755
				WTB27-3N2413	1027761
		Relay	Connector Q6, 6-pin, AC/UC-coding	WTB27-3R2611	1027763
	30 mm ... 2,500 mm	PNP	Connector M12, 4-pin	WTB27-3P2411S18	1044508

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Type of light:** visible red light
- **Detection principle:** standard optics
- **Switching mode:** light/dark-switching

Sensing range max. ¹⁾	Switching output	Connection	Model name	Part no.
0.1 m ... 15 m	PNP	Connector Q6, 6-pin, DC-coding	WL27-3F2631	1027772
	NPN	Connector Q6, 6-pin, DC-coding	WL27-3E2631	1027773
	Relay	Connector Q6, 6-pin, AC/UC-coding	WL27-3R2631	1027776
0.1 m ... 19 m	PNP	Cable with plug, M12, 4-pin	WL27-3P3460	1047955
		Connector M12, 4-pin	WL27-3P2461	1044166









¹⁾ PL80A.

Through-beam photoelectric sensor

- **Type of light:** visible red light
- **Sensing range max.:** 0 m ... 35 m
- **Switching mode:** light/dark-switching

Switching output	Connection	Model name	Part no.
PNP	Connector M12, 4-pin	WSE27-3P2430	1027790
	Connector Q6, 6-pin, DC-coding	WSE27-3F2631	1027792
NPN	Connector M12, 4-pin	WSE27-3N2430	1028072

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	–	Zinc plated steel (protective housing), Diecast zinc (clamp)	BEF-SG-W27	2039601
	Mounting brackets/plates	Mounting brackets	–	Steel, zinc coated	BEF-WN-W23	2019085
					BEF-WN-W27	2009122
	Reflectors	Angular	15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
	Terminal and alignment brackets	Universal terminal systems	–	Steel, zinc coated	BEF-KHS-A01	2022458
				Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N04	2051610

B



At a glance

- 2 mm light spot diameter at 400 mm range
- Visible red light
- Class I laser
- Precise background suppression

Your benefits

- Precise detection of small objects due to the miniature 2 mm light spot at 400 mm
- No laser safety measures required due to the Class I laser
- Red laser light for quick and easy alignment
- Familiar potentiometer adjustment ensure simple adjustment of the sensing range

→ www.mysick.com/en/W23_Laser

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.







Ordering information

Other models available at www.mysick.com/en/W23_Laser

Photoelectric proximity sensor

Detection principle	Sensing range max.	Switching output	Switching mode	Connection	Model name	Part no.
Background suppression	50 mm ... 800 mm	PNP	Light/dark-switching	Connector M12, 4-pin	WT23LF430	1045643

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	Zinc plated steel (protective housing), Diecast zinc (clamp)	BEF-SG-W27	2039601
	Mounting brackets/plates	Mounting brackets	Steel, zinc coated	BEF-WN-W23	2019085
				BEF-WN-W27	2009122
	Terminal and alignment brackets	Universal terminal systems	Steel, zinc coated	BEF-KHS-A01	2022458



At a glance

- Mounting brackets included in delivery
- Visible red Bright Light LED
- Cable or rotatable M12 connector
- Operating mode (light/dark) selectable via control wire
- Versions for 10 – 30 V DC or 24 – 240 V DC/ 24 – 240 V AC voltage supply in compact design

Your benefits

- Mounting bracket is included to ease installation
- Visible red Bright Light LED for simpler alignment of the sensors
- Cable or rotatable M12 connector provide installation flexibility
- Operating mode (light/dark) is selectable via a control cable to reduce the number of device variants
- Variants with DC voltage and universal AC/DC voltage in the same housing provide increased flexibility

→ www.mysick.com/en/W250-2

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W250-2

Photoelectric proximity sensor

Voltage type	Sensing range max. ¹⁾	Output function	Switching mode	Connection	Model name	Part no.
DC	100 mm ... 300 mm	PNP	Light/dark-switching	Connector M12, 4-pin	WTB250-2P2431	6044675
		NPN	Light/dark-switching	Connector M12, 4-pin	WTB250-2N2431	6044673
	150 mm ... 500 mm	PNP	Light/dark-switching	Connector M12, 4-pin	WTB250-2P2441	6044682
		NPN	Light/dark-switching	Connector M12, 4-pin	WTB250-2N2441	6044679
	200 mm ... 1,000 mm	PNP	Light/dark-switching	Connector M12, 4-pin	WTB250-2P2451	6044692
		NPN	Light/dark-switching	Connector M12, 4-pin	WTB250-2N2451	6044689
AC/DC	100 mm ... 300 mm	Relay	Light-switching	Cable, 5-wire, 2 m, PVC	WTB250-2R1531	6044676
	150 mm ... 500 mm	Relay	Light-switching	Cable, 5-wire, 2 m, PVC	WTB250-2R1541	6044683
	200 mm ... 1,000 mm	Relay	Light-switching	Cable, 5-wire, 2 m, PVC	WTB250-2R1551	6044693

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- Sensing range max.: 0.01 m ... 15 m (PL80A.)







Voltage type	Output function	Switching mode	Connection	Model name	Part no.
DC	PNP	Light/dark-switching	Cable, 4-wire, 2 m, PVC	WL250-2P1131	6044697
			Connector M12, 4-pin	WL250-2P2431	6044699
	NPN	Light/dark-switching	Cable, 4-wire, 2 m, PVC	WL250-2N1131	6044695
			Connector M12, 4-pin	WL250-2N2431	6044696
AC/DC	Relay	Light-switching	Cable, 5-wire, 2 m, PVC	WL250-2R1531	6044700

Through-beam photoelectric sensor

- Sensing range max.: 0 m ... 50 m

Voltage type	Output function	Switching mode	Connection	Model name	Part no.
DC	PNP	Light/dark-switching	Connector M12, 4-pin	WSE250-2P2431	6044705
	NPN	Light/dark-switching	Connector M12, 4-pin	WSE250-2N2431	6044711
AC/DC	Relay	Light-switching	Cable, 5-wire, 2 m, PVC	WSE250-2R1531	6044707

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	–	Steel, zinc coated	BEF-W250	5305850
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
	Terminal and alignment brackets	Universal terminal systems	–	Steel, zinc coated	BEF-KHS-N08	2023057



At a glance

- Highly visible red light spot thanks to the BrightLight LED
- Potentiometer for adjusting sensing range
- Light/dark switching (DC devices only)
- Rotatable connector, cable connection or terminal chamber
- Versions for 10 – 30 V DC or 24 – 240 V DC/AC voltage supply
- AC/DC (-2Hxxx) devices are compliant with EN61000-6-3 (electromagnetic interference for “residential, commercial and light-industrial environments”)
- Stainless steel mounting bracket and P250 reflector (for WL280 only) are included in delivery

Your benefits

- Simple and fast commissioning with the highly visible light spot of the BrightLight LED
- Simple operation via potentiometer
- Light/dark switching provides application flexibility
- All necessary mounting and operating accessories are included in delivery, enabling quick and easy setup: since mounting bracket (stainless steel 1.4301) is included in delivery scope
- DC devices and AC/DC devices available in the same housing, allowing electrical flexibility
- Less contamination due to high operating reserves, reducing downtime

→ www.mysick.com/en/W280-2

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W280-2

Photoelectric proximity sensor

- **Sensing range max.:** 10 mm ... 2,000 mm (Object with 90 % reflectance (referred to standard white DIN 5033))

Voltage type	Output function	Switching mode	Connection	Model name	Part no.
DC	PNP	Light/dark-switching	Connector M12, 4-pin	WTE280-2P2431	6044728
	NPN	Light/dark-switching	Connector M12, 4-pin	WTE280-2N2431	6044729
AC	Relay	Light-switching	Cable, 5-wire, 2 m	WTE280-2H1531	6044731
				WTE280-2R1531	6044759
			Cable gland	WTE280-2H4331	6044730
				WTE280-2R4331	6044758

Photoelectric retro-reflective sensor

Voltage type	Sensing range max.	Output function	Switching mode	Connection	Model name	Part no.
DC	0.01 m ... 15 m ¹⁾ 0.01 m ... 12 m ²⁾	PNP	Light/dark-switching	Connector M12, 4-pin	WL280-2P2431	6044736
		NPN	Light/dark-switching	Connector M12, 4-pin	WL280-2N2431	6044737
AC	0.01 m ... 15 m ¹⁾	Relay	Light-switching	Cable, 5-wire, 2 m	WL280-2H1531	6044739
					WL280-2R1531	6044761
				Cable gland	WL280-2H4331	6044738
					WL280-2R4331	6044760

¹⁾ PL80A.

²⁾ P250.







Through-beam photoelectric sensor

- Sensing range max.: 0 m ... 60 m

B

Voltage type	Output function	Switching mode	Connection	Model name	Part no.
DC	PNP	Light/dark-switching	Connector M12, 4-pin	WSE280-2P2431	6044745
	NPN	Light/dark-switching	Connector M12, 4-pin	WSE280-2N2431	6044746
AC	Relay	Light-switching	Cable, 5-wire, 2 m	WSE280-2H1531	6044748
				WSE280-2R1531	6044763
			Cable gland	WSE280-2H4331	6044747
				WSE280-2R4331	6044762

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	–	Stainless steel V2A (1.4301)	BEF-W280	5313885
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
	Terminal and alignment brackets	Universal terminal systems	–	Steel, zinc coated	BEF-KHS-F01	2022463



At a glance

- WTT280L-2: sensing distance up to 4 m
- WLT280L-2: sensing distance up to 18 m (expected to be available from October 2012)
- Complete background suppression: very small black/white shift, insensitive against reflections from the background (e.g. shiny metal, window, safety vest)
- Ignores cross talk from adjacent sensors
- Visible red class 1 laser light
- Version 1: with 1 x switching output and light/dark switch, version 2: with 2 x switching outputs and light/dark switch
- Disable laser by wire
- Reliable detection also in very fast production processes thanks to the switching frequency of 1000 Hz

Your benefits

- Reliable target detection with difficult target colors, angles and color transitions (black/white shift)
- One sensor with two outputs and two status LEDs improves application flexibility and reduces the number of sensors needed
- Quick and easy commissioning with sensing distance adjustment potentiometers and status LED – one for each output
- Quick and easy alignment with a red class 1 laser light
- Rotatable connector and light/dark switch for mounting and installation flexibility

→ www.mysick.com/en/W280L-2_Long_Range

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/W280L-2_Long_Range

Photoelectric proximity sensor

- **Switching mode:** light/dark-switching

Sensing range max.	Output function	Connection	Model name	Part no.
200 mm ... 4,000 mm ¹⁾ 200 mm ... 3,000 mm ²⁾	PNP	Cable 2 m, 5-pin, 2 m, PVC	WTT280L-2P1531	6048065
		Connector M12, 5-pin	WTT280L-2P2531	6048061
	2 x PNP	Cable 2 m, 5-pin, 2 m, PVC	WTT280L-2P1536	6048066
		Connector M12, 5-pin	WTT280L-2P2536	6048062
	NPN	Cable 2 m, 5-pin, 2 m, PVC	WTT280L-2N1531	6048067
		Connector M12, 5-pin	WTT280L-2N2531	6048063
	2 x NPN	Cable 2 m, 5-pin, 2 m, PVC	WTT280L-2N1536	6048068
		Connector M12, 5-pin	WTT280L-2N2536	6048064
200 mm ... 18,000 mm ³⁾	2 x PNP	Connector M12, 5-pin	WLT280L-2P2536	6048069
	2 x NPN	Connector M12, 5-pin	WLT280L-2N2536	6048070





¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

²⁾ Objects to be sensed with 6 % reflectivity (based on black)

³⁾ Reflector P250, PL80A.

Accessories

B

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Stainless steel V2A (1.4301)	BEF-W280	5313885
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
	Terminal and align- ment brackets	Universal terminal systems	–	Steel, zinc coated	BEF-KHS-F01	2022463
					BEF-KHS-J01	2022719



At a glance


- M12 metal housing with an IP 67 enclosure rating
- Long sensing distances, short response times
- 2 teach-in modes: Standard teach mode for basic applications and precise teach mode with small hysteresis for special applications
- Adjustable light or dark switching as complementary outputs
- PNP or NPN output available
- Complements inductive sensor portfolio with an M12 housing
- 4-pin M12 connector or 2 m cable

Your benefits

- Standard M12 miniature housing saves installation space on the machine
- Simple design and time-saving installation due to a standard M12 housing
- Operating reserve display simplifies commissioning and saves maintenance time
- Standardized connection technology and broad application use
- Fast response times ensure reliable detection of objects at high speeds, increasing machine throughput
- Tough metal housing provides a long service life, reducing maintenance time and costs

→ www.mysick.com/en/V12-2

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/V12-2

Photoelectric proximity sensor

- **Detection principle:** energetic
- **Type of light:** infrared light
- **Housing material:** metal
- **Switching mode:** light/dark-switching
- **Adjustment:** adjustable manual, via teach-in button, electronic, via control input C (0 V)

Sensing range max. ¹⁾	Switching output	Connection	Model name	Part no.
0 mm ... 115 mm	PNP	Cable, 4-wire	VT12T-2P112	6026211
		Connector M12, 4-pin	VT12T-2P410	6026212
	NPN	Cable, 4-wire	VT12T-2N112	6026209
		Connector M12, 4-pin	VT12T-2N410	6026210
0 mm ... 340 mm	PNP	Cable, 4-wire	VT12T-2P132	6026215
		Connector M12, 4-pin	VT12T-2P430	6026216
	NPN	Cable, 4-wire	VT12T-2N132	6026213
		Connector M12, 4-pin	VT12T-2N430	6026214

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Type of light:** visible red light
- **Housing material:** metal
- **Sensing range max.:** 0.03 m ... 2.8 m (PL80A.)
- **Switching mode:** light/dark-switching
- **Adjustment:** no/fix








Switching output	Connection	Model name	Part no.
PNP	Cable, 4-wire	VL12-2P132	6026219
	Connector M12, 4-pin	VL12-2P430	6026220
NPN	Cable, 4-wire	VL12-2N132	6026217
	Connector M12, 4-pin	VL12-2N430	6026218

Through-beam photoelectric sensor

- **Type of light:** infrared light
- **Housing material:** metal
- **Sensing range max.:** 0 m ... 5 m
- **Switching mode:** light/dark-switching
- **Adjustment:** no/fix

Switching output	Connection	Model name	Part no.
PNP	Cable, 4-wire	VS/VE12-2P132	6026223
	Connector M12, 4-pin	VS/VE12-2P430	6026224
NPN	Cable, 4-wire	VS/VE12-2N132	6026221
	Connector M12, 4-pin	VS/VE12-2N430	6026222

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	–	Steel, zinc coated	BEF-WG-M12	5321869
		Mounting plates	–	Stainless steel	BEF-WG-M12N	5320950
		Mounting brackets	–	Steel, zinc coated	BEF-WN-M12	5308447
		Mounting plates	–	Stainless steel	BEF-WN-M12N	5320949
	Reflectors	Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			47 mm x 47 mm	PMMA/ABS	P250	5304812
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Round	–	PMMA/ABS	PL22-2	1003621
	Terminal and alignment brackets	Universal terminal systems	–	Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N05	2051611
					BEF-KHS-N06	2051612



At a glance

- IP 69K-rated cylindrical photoelectric sensors in M18 stainless steel housing
- Resistant to all common cleaning agents and certified by independent institutes
- Extended temperature range: +85° C (long-term), +100° C / 15 min. (short-term)
- Touch (smart) teach-in adjustment
- All sensor materials, including the housing, LED and lens are resistant to chemicals
- IP 69K and IP 68 according to DIN 40050
- Laser-etched part numbers
- Ecolab & JohnsonDiversey certified for chemical resistance

Your benefits

- Simple, time-saving design ensures easy mounting, alignment and replacement
- IP 69K-rated stainless steel housing has a long service life that withstands wash down environments, reducing maintenance time and costs
- Unique touch-teach feature and lock/unlock functionality allow users to control who can change the sensor setting, which reduces the chances of disturbing a proven process and saves commissioning and maintenance time
- Laser-etched part numbers ensures the part numbers will not be washed off, saving maintenance time

→ www.mysick.com/en/V18V

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/V18V

Photoelectric proximity sensor

- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Detection principle	Type of light	Sensing range max. ¹⁾	Switching output	Model name	Part no.
Background suppression	Visible red light	0 mm ... 100 mm	PNP	VTB18-4P1240VS01	6037754
			NPN	VTB18-4N1240VS01	6037755
		0 mm ... 140 mm	PNP	VTB18-4P1240V	6035493
			NPN	VTB18-4N1240V	6035494
Energetic	Visible red light	0 mm ... 110 mm	PNP	VTF18-4P1240V	6035487
			NPN	VTF18-4N1240V	6035488
	Infrared light	0 mm ... 450 mm	PNP	VTE18-4P4240V	6035489
			NPN	VTE18-4N4240V	6035490
		0 mm ... 900 mm	PNP	VTE18-4P8240V	6035491
			NPN	VTE18-4N8240V	6035492

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Type of light:** visible red light
- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Sensing range max. ¹⁾	Switching output	Model name	Part no.
0.035 m ... 4.5 m	PNP	VL18-4P2240V	6035497
	NPN	VL18-4N2240V	6035498
0.1 m ... 5 m	PNP	VL18-4P3140V	6035495
	NPN	VL18-4N3140V	6035496






¹⁾ PL80A.

Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 20 m
- **Type of light:** infrared light
- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Switching output	Model name	Part no.
PNP	VS/VE18-4P3140V	6035499
NPN	VS/VE18-4N3140V	6035500

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/plates	Mounting plates	–	Stainless steel	BEF-WG-M18N	5320948
					BEF-WN-M18N	5320947
	Reflectors	Angular	47 mm x 47 mm	Plastic	P250 CHEM	5321097
	Terminal and alignment brackets	Universal terminal systems	–	Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp)	BEF-KHS-N06N	2051622
		Terminal brackets	–	Stainless steel	BEF-WN-MH15-2V	4053358



At a glance

- Low-cost cylindrical M18 sensor with extra short housing
- Five different housing styles
- Variety of plastic and metal housing styles, with straight or right angle optics
- Bright and highly visible PinPoint-LED
- Special flush type, one-piece metal housing
- Highly visible signal indicator LED
- IP 67 rating

Your benefits

- Space-saving solution due to short housing
- Flexible mounting options due to versatile housing styles
- Easy installation and precise detection due to PinPoint LED
- Reduced maintenance costs due to high tightening torque of single piece flush metal housing
- Rugged and reliable with proven SICK technology
- Highly visible signal indicator LED saves maintenance and commissioning time

B



→ www.mysick.com/en/GR18S

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/GR18S

Photoelectric proximity sensor

- **Detection principle:** energetic
- **Housing design:** axial
- **Switching mode:** light-switching
- **Adjustment:** adjustable, Potentiometer, 270°

Sensing range max. ¹⁾	Housing material	Switching output	Connection	Model name	Part no.
3 mm ... 115 mm	Metal	PNP	Cable, 3-wire, 2 m, PVC	GRTE18S-P1312	1058203
			Connector M12, 3-pin	GRTE18S-P2312	1058204
	Plastic	NPN	Cable, 3-wire, 2 m, PVC	GRTE18S-N1312	1058201
			Connector M12, 3-pin	GRTE18S-N2312	1058202
		PNP	Cable, 3-wire, 2 m, PVC	GRTE18S-P1317	1058195
			Connector M12, 3-pin	GRTE18S-P2317	1058196
5 mm ... 550 mm	Metal	NPN	Cable, 3-wire, 2 m, PVC	GRTE18S-N1317	1058194
			Connector M12, 3-pin	GRTE18S-N2317	1058195
	Plastic	PNP	Cable, 3-wire, 2 m, PVC	GRTE18S-P1342	1058205
			Connector M12, 3-pin	GRTE18S-P2342	1058200
		NPN	Cable, 3-wire, 2 m, PVC	GRTE18S-N1342	1058202
			Connector M12, 3-pin	GRTE18S-N2342	1058203

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Sensing range max.:** 0.03 m ... 7.2 m (PL80A.)
- **Switching output:** PNP
- **Adjustment:** no/fix
- **Connection:** connector M12, 3-pin







Housing material	Housing design	Switching mode	Model name	Part no.
Metal	Axial	Dark-switching	GRL18S-F2331	1058198
		Light-switching	GRL18S-P2331	1058199
	Axial, fully flush	Dark-switching	GRL18S-F233Y	1058206
		Light-switching	GRL18S-P233Y	1058207
	Radial, fully flush	Dark-switching	GRL18S-F233W	1058209
		Light-switching	GRL18S-P233W	1058210
Plastic	Axial	Dark-switching	GRL18S-F2336	1059533
		Light-switching	GRL18S-P2336	1058192
	Radial	Dark-switching	GRL18S-F2338	1058211
		Light-switching	GRL18S-P2338	1058212



Through-beam photoelectric sensor

- **Sensing range max.:** 0 m ... 15 m
- **Housing material:** plastic
- **Housing design:** axial
- **Switching output:** PNP
- **Adjustment:** no/fix
- **Connection:** connector M12, 3-pin

Switching mode	Model name	Part no.
Dark-switching	GRSE18S-F2336	1058214
Light-switching	GRSE18S-P2336	1058215

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Steel, zinc coated	BEF-WG-M18	5321870
					BEF-WN-M18	5308446
	Reflectors	Angular	15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			47 mm x 47 mm	PMMA/ABS	P250	5304812
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Reflectors	Round	-	PMMA/ABS	PL22-2	1003621
	Terminal and align- ment brackets	Terminal brackets	-	Plastic (PA12)	BEF-WN-MH15-1	4039533





At a glance

- Low-cost cylindrical M18 sensor with extra short housing
- Potentiometer for adjustment of switching threshold
- Five different housing styles
- Variety of plastic and metal housing styles, with straight or right angle optics
- Bright and highly visible PinPoint-LED
- Special flush type, one-piece metal housing
- Highly visible signal indicator LED
- IP 67 rating

Your benefits

- Space-saving solution due to short housing
- Flexible mounting options due to versatile housing styles
- Potentiometer for adjustment of switching threshold allows detection of transparent objects.
- Easy installation and precise detection due to PinPoint LED
- Reduced maintenance costs due to high tightening torque of single piece flush metal housing
- Rugged and reliable with proven SICK technology
- Highly visible signal indicator LED saves maintenance and commissioning time

→ www.mysick.com/en/GR18SG

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information









Other models available at www.mysick.com/en/GR18SG

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Sensing range max.:** 0.03 m ... 7.2 m (PL80A.)
- **Switching output:** PNP
- **Switching mode:** dark-switching
- **Adjustment:** potentiometer, 270°
- **Connection:** connector M12, 3-pin

Housing material	Housing design	Model name	Part no.
Metal	Axial	GRL18SG-F2331	1059555
	Axial, fully flush	GRL18SG-F233Y	1059556
	Radial, fully flush	GRL18SG-F233W	1059557
Plastic	Axial	GRL18SG-F2336	1059553
	Radial	GRL18SG-F2338	1059554

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting brackets	–	Steel, zinc coated	BEF-WG-M18	5321870
					BEF-WN-M18	5308446
	Reflectors	Angular	15 mm x 38 mm	PMMA/ABS	PL20A	1012719
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			47 mm x 47 mm	PMMA/ABS	P250	5304812
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
		Round	–	PMMA/ABS	PL22-2	1003621
	Terminal and align- ment brackets	Terminal brackets	–	Plastic (PA12)	BEF-WN-MH15-1	4039533

B

B



Stainless Steel



At a glance

- Field-tested resistance to acidic and alkaline cleaning and disinfecting agents
- Corrosion-resistant stainless steel housing 316L, certified by ECOLAB und JohnsonDiversey
- IP 69K-rated housing is resistant to wash down environments
- Available as complete family including proximity, BGS, retro-reflective and through-beam
- 3 mm chemical resistant sensor lens

Your benefits

- Field-tested, compact, stainless steel IP 69K design of the MH15V reduces downtime and replacement costs
- 3 mm flat, chemically resistant material of the sensor lens offers a long service life, reducing maintenance time and costs
- Reliable object detection, even in difficult environments reduces miscount and increases machine throughput
- Short M18 housing with flush mounting fits in tight areas, which saves machine space
- ECOLAB and JohnsonDiversey certified MH15V are suitable for hygienic environments, reducing maintenance costs
- Innovative stainless steel mounting accessories provide fast and low-cost installation

→ www.mysick.com/en/MH15V

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/MH15V

Photoelectric proximity sensor

- **Adjustment:** potentiometer, 270°
- **Connection:** connector M12, 4-pin

Detection principle	Type of light	Sensing range max. ¹⁾	Switching output	Switching mode	Model name	Part no.
Energetic	Infrared light	10 mm ... 100 mm	PNP	Dark-switching	MHT15-P3217V	1043805
				Light-switching	MHT15-P3317V	1043806
			NPN	Dark-switching	MHT15-N3217V	1043803
				Light-switching	MHT15-N3317V	1043804
		10 mm ... 350 mm	PNP	Dark-switching	MHT15-P3247V	1043810
				Light-switching	MHT15-P3347V	1043811
			NPN	Dark-switching	MHT15-N3247V	1043808
				Light-switching	MHT15-N3347V	1043809
Background suppression	Visible red light	3 mm ... 300 mm	PNP	Dark-switching	MHTB15-P3267V	1047160
				Light-switching	MHTB15-P3367V	1046537
			NPN	Dark-switching	MHTB15-N3267V	1047159
				Light-switching	MHTB15-N3367V	1046536

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Type of light:** visible red light
- **Sensing range max.:** 0.035 m ... 5 m (PL80A.)
- **Connection:** connector M12, 4-pin






Switching output	Switching mode	Model name	Part no.
PNP	Dark-switching	MHL15-P3236V	1043814
	Light-switching	MHL15-P3336V	1043815
NPN	Dark-switching	MHL15-N3236V	1043812
	Light-switching	MHL15-N3336V	1043813

Through-beam photoelectric sensor

- **Type of light:** visible red light
- **Sensing range max.:** 0 m ... 5 m
- **Connection:** connector M12, 4-pin

Switching output	Switching mode	Model name	Part no.
PNP	Dark-switching	MHSE15-P3236V	1043818
	Light-switching	MHSE15-P3336V	1043819
NPN	Dark-switching	MHSE15-N3236V	1043816
	Light-switching	MHSE15-N3336V	1043817

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/ plates	Mounting plates	–	Stainless steel	BEF-WG-M18N	5320948
					BEF-WN-M18N	5320947
	Reflectors	Angular	47 mm x 47 mm	Plastic	P250 CHEM	5321097
	Terminal and align- ment brackets	Universal terminal systems	–	Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp)	BEF-KHS-N06N	2051622
		Terminal brackets	–	Stainless steel	BEF-WN-MH15-2V	4053358



At a glance

- Low-cost M18 housing sensor on the market
- Long sensing distances: 100 mm, 400 mm, 800 mm (proximity sensor), 6 m (retro-reflective sensor) and 20 m (through-beam sensor)
- Bright power and signal LEDs with 360° visibility
- Wide product portfolio solves a broad range of applications
- High switching frequencies up to 1000 Hz
- Available in a metal housing for applications in harsh environments
- Optical axis selectively axial or radial (90°)

Your benefits

- Low-cost M18 cylindrical sensor on the market reduces installation costs
- Bright red sender LED simplifies alignment and saves installation time
- Bright power and signal LEDs with 360° visibility offer quick and simple troubleshooting, reducing maintenance time and costs
- The flat and smooth lens reduces the collection of dust and dirt, ensuring safe operation with less maintenance and fewer costs

→ www.mysick.com/en/V180-2

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Ordering information

Other models available at www.mysick.com/en/V180-2

Photoelectric proximity sensor

- **Detection principle:** background blanking
- **Switching mode:** light/dark-switching
- **Adjustment:** adjustable Potentiometer, 270°
- **Connection:** connector M12, 4-pin

Sensing range max. ¹⁾	Housing material	Switching output	Model name	Part no.
1 mm ... 450 mm	Metal	PNP	VTE180-2P42442	6041807
		NPN	VTE180-2N42442	6041805
	Plastic	NPN	VTE180-2N42447	6037482
		PNP	VTE180-2P42447	6037484
1 mm ... 500 mm	Metal	PNP	VTE180-2P42444	6043815
		NPN	VTE180-2N42444	6043813
	Plastic	PNP	VTE180-2P42449	6043819
		NPN	VTE180-2N42449	6043817
1 mm ... 130 mm	Metal	PNP	VTF180-2P42414	6043806
		NPN	VTF180-2N42414	6043804
	Plastic	PNP	VTF180-2P42419	6043811
		NPN	VTF180-2N42419	6043808
1 mm ... 140 mm	Metal	PNP	VTF180-2P42412	6041803
		NPN	VTF180-2N42412	6041801
	Plastic	PNP	VTF180-2P42417	6037480
		NPN	VTF180-2N42417	6037478

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033)

Photoelectric retro-reflective sensor

- **Detection principle:** standard optics
- **Switching mode:** light/dark-switching
- **Adjustment:** adjustable Potentiometer, 270°
- **Connection:** connector M12, 4-pin

Sensing range max. ¹⁾	Housing material	Switching output	Model name	Part no.
0.05 m ... 5.5 m	Metal	PNP	VL180-2P42433	6043834
		NPN	VL180-2N42433	6043830
	Plastic	PNP	VL180-2P42438	6043838
		NPN	VL180-2N42438	6043836
0.05 m ... 7 m	Metal	PNP	VL180-2P42431	6041819
		NPN	VL180-2N42431	6041817
	Plastic	PNP	VL180-2P42436	6037496
		NPN	VL180-2N42436	6037494

¹⁾ PL80A.







Through-beam photoelectric sensor

- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Sensing range max.	Housing material	Switching output	Adjustment	Model name	Part no.
0 m ... 25 m	Metal	PNP	Adjustable Potentiometer, 270° ¹⁾	VSE180-2P42434	6043850
		NPN	Adjustable Potentiometer, 270° ¹⁾	VSE180-2N42434	6043848
	Plastic	PNP	Adjustable Potentiometer, 270° ¹⁾	VSE180-2P42439	6043854
		NPN	Adjustable Potentiometer, 270° ¹⁾	VSE180-2N42439	6043852
0 m ... 28 m	Metal	PNP	Adjustable Potentiometer, 270°	VSE180-2P42432	6041823
		NPN	Adjustable Potentiometer, 270°	VSE180-2N42432	6041821
	Plastic	PNP	Adjustable Potentiometer, 270°	VSE180-2P42437	6037500
		NPN	Adjustable Potentiometer, 270°	VSE180-2N42437	6037498

¹⁾ Receiver.

Accessories

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	–	Steel, zinc coated	BEF-WG-M18	5321870
					BEF-WN-M18	5308446
	Reflectors	Angular	47 mm x 47 mm	PMMA/ABS	P250	5304812
			37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
	Terminal and alignment brackets	Universal terminal systems	–	Stainless steel 1.4571 (sheet), Stainless steel 1.4408 (clamp)	BEF-KHS-N06N	2051622

B



At a glance

- Rapid response time (50 μ s)
- Switching threshold adjustment via potentiometer, or teach-in via button or cable
- Four different teach-in modes
- Simple installation
- Red or green LED emitter

Your benefits

- Reliable, rapid process detection
- Low installation costs due to short commissioning time
- Flexible teach-in modes allow the sensor to be customized according to the specific application
- Emitted light ideal for color or contrast detection
- Easy programming via simple potentiometer and switch adjustment

→ www.mysick.com/en/WLL170-2

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Ordering information

Other models available at www.mysick.com/en/WLL170-2

WLL170-2

- **Type of light:** visible red light
- **Adjustment:** potentiometer, 10-turn (Scale 270°.)

Response time	Sensing range max. ¹⁾	Switching mode	Connection	Model name	Part no.
≤ 0.25 ms	0 mm ... 4,000 mm, through-beam system	PNP	Cable, 3-pole, 2 m	WLL170-2P132	6029511
			Connector, M8, 3-pin	WLL170-2P330	6029513
			Connector, M8, 4-pin	WLL170-2P430	6029514
		NPN	Cable, 3-pole, 2 m	WLL170-2N132	6029515
			Connector, M8, 3-pin	WLL170-2N330	6029517
			Connector, M8, 4-pin	WLL170-2N430	6029518
≤ 50 μ s	0 mm ... 1,600 mm, through-beam system	PNP	Cable, 3-pole, 2 m	WLL170-2P162	6029527
			Connector, M8, 3-pin	WLL170-2P360	6029529
			Connector, M8, 4-pin	WLL170-2P460	6029530
		NPN	Cable, 3-pole, 2 m	WLL170-2N162	6029531
			Connector, M8, 3-pin	WLL170-2N360	6029533
			Connector, M8, 4-pin	WLL170-2N460	6029534

¹⁾ LL3-TB02 and tip adapter LL3-TA01.



WLL170T-2

- **Type of light:** visible red light

Response time	Sensing range max. ¹⁾	Adjustment	Switching mode	Connection	Model name	Part no.
≤ 0.25 ms	0 mm ... 3,500 mm, through-beam system	Teach-in button	PNP	Connector, M8, 3-pin	WLL170T-2P330	6033949
			NPN	Connector, M8, 3-pin	WLL170T-2N330	6033952
		Teach-in button Cable	PNP	Cable, 4-pole, 2 m	WLL170T-2P132	6033948
				Connector, M8, 4-pin	WLL170T-2P430	6033950
			NPN	Cable, 4-pole, 2 m	WLL170T-2N132	6033951
				Connector, M8, 4-pin	WLL170T-2N430	6033953
≤ 50 µs	0 mm ... 1,500 mm, through-beam system	Teach-in button	PNP	Connector, M8, 3-pin	WLL170T-2P360	6033964
			NPN	Connector, M8, 3-pin	WLL170T-2N360	6033961
		Teach-in button Cable	PNP	Cable, 4-pole, 2 m	WLL170T-2P162	6033963
				Connector, M8, 4-pin	WLL170T-2P460	6033965
			NPN	Cable, 4-pole, 2 m	WLL170T-2N162	6033960
				Connector, M8, 4-pin	WLL170T-2N460	6033962

¹⁾ LL3-TB02 and tip adapter LL3-TA01.

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	Steel, zinc coated	BEF-WLL170	5306574
	Other mounting accessories	Others	–	BF-EB01-W190	5313011

B



At a glance

- Selectable response time up to 16 μ s
- Sensing range up to 20 m, sensing distance up to 1400 mm
- Bus-compatible with anti-interference
- 2 x 4-digit display
- Adjustable hysteresis
- Rotatable display screen
- High-resolution signal processing
- Programmable time delays

Your benefits

- Reliable, rapid process detection, even under the most difficult ambient conditions, such as dust, spray or mist
- Easy commissioning and product changeover due to external teach-in
- Cross-talk is eliminated when utilizing bus configuration option
- Quick, easy setup and adjustment due to an intuitive operating menu
- Flexible parameter adjustment due to high-resolution signal processing. Hysteresis and time delays can be adapted to suit the application, e.g., when detecting tiny or transparent objects
- Easy-to-read display, even under difficult installation conditions

→ www.mysick.com/en/WLL180T

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information



Other models available at www.mysick.com/en/WLL180T

- **Type of light:** visible red light
- **Adjustment:** teach-in button, cable, +/- increment button, manual
- **Sensing range max.:** 0 m ... 20 m, through-beam system (Sensing range with 8 ms response time. Scanning range reduction with shorter response time (see tables LL3/WLL180T)) (LL3-TX01.)

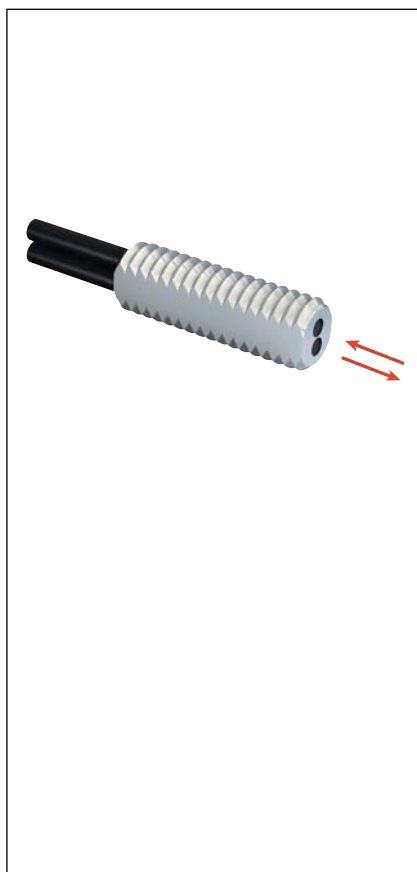
Device type	Switching output	Connection	Model name	Part no.
Stand-alone	PNP	Cable, 4-pole, 2 m	WLL180T-P432	6039093
		Connector, M8, 4-pin	WLL180T-P434	6039095
	NPN	Cable, 4-pole, 2 m	WLL180T-N432	6039094
		Connector, M8, 4-pin	WLL180T-N434	6039096
Base unit ¹⁾	PNP	Cable, 4-pole, 2 m	WLL180T-M432	6039097
		Connector, M8, 4-pin	WLL180T-M434	6039101
		Connector, M8, 3-pin	WLL180T-M333	6042428
	NPN	Cable, 4-pole, 2 m	WLL180T-L432	6039099
		Connector, M8, 4-pin	WLL180T-L434	6039103
		Connector, M8, 3-pin	WLL180T-L333	6042429
Expansion unit	PNP	Cable, 2-pole, 2 m	WLL180T-F232	6039098
		Connector, M8, 3-pin	WLL180T-F333	6042429
		Connector, M8, 4-pin	WLL180T-F434	6039102
	NPN	Cable, 2-pole, 2 m	WLL180T-E232	6039100
		Connector, M8, 4-pin	WLL180T-E434	6039104

¹⁾ Up to 15 expansion units can be connected.

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	Steel, zinc coated	BEF-WLL170	5306574
	Other mounting accessories	Others	-	BF-EB01-W190	5313011





At a glance

- Very large selection of plastic and glass fiber-optic cables.
- Fiber-optic cables resistant to chemicals and high temperature
- Threaded and smooth sleeves, bands of light (array), 90° reflection versions available
- Focused optics
- Proximity and through-beam versions available
- Plastic, protective metal or Teflon sheathing available

Your benefits

- Very large selection of fiber-optic cables with plastic and glass fibers, giving users more application flexibility
- Resistant to damage caused by mechanical and chemical stress, as well as high temperatures
- Standard and customer-specific types
- Simple installation saves time
- For detection of objects, surfaces, leading edges, and fluid levels

→ www.mysick.com/en/LL3

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/LL3

Proximity system

Category fiber-optic cables	Housing length	Diameter, connection	Fiber-optic cable cuttable	Minimal object diameter ²⁾	Bend radius, fibre-optic cable	Heat resistance	Ambient operating temperature	Model name	Part no.
Threaded sleeve	2 m	1.3 mm	✓ ¹⁾	0.015 mm	25 mm	+70 °C	-40 °C +70 °C	LL3-DM01	5308071
					15 mm	+70 °C	-40 °C +70 °C	LL3-DT01 LL3-DM02	5308076 5308077
		2.2 mm	✓ ¹⁾	0.015 mm	25 mm	+70 °C	-40 °C +70 °C	LL3-DB01	5308074
					2 mm	+70 °C	-40 °C +70 °C	LL3-DK67	5313025
Threaded sleeve, Flexible fiber-optic cable	2 m	2.2 mm	✓ ¹⁾	0.015 mm	4 mm	+70 °C	-40 °C +70 °C	LL3-DR01	5308078
Smooth sleeve, Flexible fiber-optic cable	1 m	1.3 mm	–	0.015 mm	4 mm	+70 °C	-40 °C +70 °C	LL3-DR04	5308081
Long end sleeve, Flexible fiber-optic cable	2 m	1.3 mm	✓ ¹⁾	0.015 mm	2 mm	+70 °C	-40 °C +70 °C	LL3-DK63Z	5313027
Area detection	2 m	2.2 mm	✓ ¹⁾	0.02 mm	25 mm	+60 °C	-40 °C +60 °C	LL3-DZ01	5326013
						+70 °C	-40 °C +70 °C	LL3-DZ03	5326015

¹⁾ FC fiber optic cable cutter included in delivery.

²⁾ Minimum detectable object was determined at optimal measuring distance and optimal setting.

Category fiber-optic cables	Housing length	Diameter, connection	Fiber-optic cable cuttable	Minimal object diameter ²⁾	Bend radius, fibre-optic cable	Heat resistance	Ambient operating temperature	Model name	Part no.
Flat type, Flexible fiber-optic cable	2 m	1 mm	✓ ¹⁾	0.01 mm	1 mm	+60 °C	-40 °C +60 °C	LL3-DC47	5324268
		1.3 mm	✓ ¹⁾	0.03 mm	1 mm	+60 °C	-40 °C +60 °C	LL3-DE03	5325986
Flat type, LCDs/ transparent objects/ semiconductors	2 m	1 mm	✓ ¹⁾	0.02 mm	10 mm	+70 °C	-40 °C +70 °C	LL3-DC09	5326028
						+50 °C	-40 °C +50 °C	LL3-DC38	5322472
Heat-resistant, Liquid level, Threaded sleeve	1 m	4 mm	–	0.02 mm	25 mm	+200 °C	-40 °C +200 °C	LL3-DW01	5315234
Heat-resistant, Threaded sleeve	2 m	2.2 mm	✓ ¹⁾	0.015 mm	35 mm	+180 °C	-40 °C +180 °C	LL3-DH01	5308091
Liquid level	2 m	2.2 mm	✓ ¹⁾	–	30 mm	+105 °C	-40 °C +105 °C	LL3-DF02-S01	5321924

¹⁾ FC fiber optic cable cutter included in delivery.

²⁾ Minimum detectable object was determined at optimal measuring distance and optimal setting.

Through-beam system

Category fiber-optic cables	Housing length	Diameter, connection	Fiber-optic cable cuttable	Minimal object diameter ²⁾	Bend radius, fibre-optic cable	Heat resistance	Ambient operating temperature	Model name	Part no.
Threaded sleeve	–	2.2 mm	✓ ¹⁾	0.5 mm	25 mm	+60 °C	-40 °C +60 °C	LL3-TX01	5324173
Threaded sleeve, Flexible fiber-optic cable	2 m	2.2 mm	✓ ¹⁾	0.3 mm	4 mm	+70 °C	-40 °C +70 °C	LL3-TR01	5308052
				0.2 mm	2 mm	+70 °C	-40 °C +70 °C	LL3-TK77	5313035
Smooth sleeve, Flexible fiber-optic cable	2 m	2.2 mm	✓ ¹⁾	0.2 mm	2 mm	+70 °C	-40 °C +70 °C	LL3-TK05	5313034
Long end sleeve, 90° deflection	2 m	2.2 mm	✓ ¹⁾	0.2 mm	25 mm	+70 °C	-40 °C +70 °C	LL3-TS08	5308061
Area detection	2 m	2.2 mm	✓ ¹⁾	0.5 mm	25 mm	+70 °C	-40 °C +70 °C	LL3-TS14	5313039
	–	2.2 mm	✓ ¹⁾	0.4 mm	2 mm	+60 °C	-40 °C +60 °C	LL3-TS40	5323971
Area detection, Flexible fiber-optic cable	2 m	1.3 mm	✓ ¹⁾	0.25 mm	1 mm	+50 °C	-40 °C +55 °C	LL3-TZ09	5326598
Flat type, Flexible fiber-optic cable	2 m	1.3 mm	✓ ¹⁾	0.08 mm	1 mm	+60 °C	-40 °C +60 °C	LL3-TE03	5325908
Heat-resistant	–	2.2 mm	–	0.04 mm	25 mm	+350 °C	-30 °C +350 °C	LL3-TH08	5325978
Heat-resistant, Liquid level, Threaded sleeve	–	3 mm	–	0.4 mm	25 mm	+200 °C	-40 °C +200 °C	LL3-TW01	5315233
LCDs/transparent objects/semiconductors	–	1 mm	✓ ¹⁾	0.02 mm	10 mm	+60 °C	-40 °C +60 °C	LL3-TG04	5324499
Resistant to oil/ chemicals, PTFE	2 m	6 mm	– ¹⁾	0.3 mm	60 mm	+70 °C	-40 °C +70 °C	LL3-TY01	5308066
90° deflection, Flexible fiber-optic cable, Threaded sleeve	–	2.2 mm	✓ ¹⁾	0.4 mm	2 mm	+70 °C	-40 °C +70 °C	LL3-TV07	5322548

¹⁾ FC fiber optic cable cutter included in delivery.

²⁾ Minimum detectable object was determined at optimal measuring distance and optimal setting.

Tip adapters

Category	Model name	Part no.
Proximity system	LL3-DA01	5308127
	LL3-DA02	5308130
Through-beam system	LL3-TA01	5308128
	LL3-TA02	5308129

Accessories

Accessory category	Accessory type	Dimensions (L x W x H)	Model name	Part no.
Other mounting accessories	Others	-	BF-WLL160-10	5305479
			BF-WLL160-13	5306094
		65 mm x 10 mm x 37 mm	FC	5304141



At a glance

- Two complete and independent receiver systems
- HighPower LED, extreme light intensity
- Special software
- Sensing distance up to 500 mm
- Fast and easy commissioning thanks to the very good visible red HighPower LED

Your benefits

- Highest functionality with low invest: due to the extreme reliable, redundant detection of objects (shiny, glossy, irregular) without any interruption of the signal.
- Reduced mechanical effort: One fixed position of the sensor, no mechanical adjustment during operation while changing of the product.
- Increase of the productivity of multi transport lines: Therefore each line of bundle transport can be monitored and controlled more efficiently (≥ 2 lines). No need to mount a reflector.

→ www.mysick.com/en/MultiPac

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information




Other models available at www.mysick.com/en/MultiPac

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Sensing range max.:** 30 mm ... 500 mm (Object with 90 % reflectance (referred to standard white DIN 5033))
- **Switching mode:** light/dark-switching
- **Connection:** connector M12, 4-pin

Switching output	Model name	Part no.
NPN	WTB27-3N2483	1056385
PNP	WTB27-3P2483	1056384

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	Zinc plated steel (protective housing), Diecast zinc (clamp)	BEF-SG-W27	2039601
	Mounting brackets/plates	Mounting brackets	Steel, zinc coated	BEF-WN-W27	2009122
	Terminal and alignment brackets	Universal terminal systems	Steel, zinc coated	BEF-KHS-A01	2022458

B



At a glance

- Two logical and intelligently linked sensors with background suppression in one miniature housing offer the highest ruggedness for object detection
- Consistent, reliable detection of structures and perforated objects such as e-cards
- Consistent, reliable detection of reflective and irregular objects such as blister packs and soup sachets on conveyor belts
- Maximum sensing range 120 mm
- Simple adjustment via teach-in button

Your benefits

- The MultiLine sensor facilitates faster production sequences since the distances between objects can be reduced
- The sensor position no longer needs to be modified for format changes since the sensor is able to detect objects independently of their position. This saves time and money
- The reliable signal of the sensor from the arriving to the departing edge places less demands on the control software since it no longer needs to be debounced or evaluated
- The MultiLine sensor offers high process reliability because all objects are detected independently of their structure, geometry and surface properties
- And placing the sensor into operation is as easy as pressing a button. A fast and reliable commissioning without complicated operating algorithms is thus given

→ www.mysick.com/en/MultiLine_Sensor

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information



Other models available at www.mysick.com/en/MultiLine_Sensor

Photoelectric proximity sensor

- **Detection principle:** multi-background suppression
- **Sensing range max.:** 5 mm ... 120 mm
- **Adjustment:** teach-in button

Switching output	Switching mode	Connection	Model name	Part no.
PNP	Light-switching	Connector M8, 3-pin	WTB4-3P2192	1058268
NPN	Light/dark-switching	Cable, 4-wire	WTB4-3N1192	1059272

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	Stainless steel 1.4571	BEF-SW-W4S	2051497
	Terminal and alignment brackets	Universal terminal systems	Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N08	2051607



At a glance

- Minimum Detectable Object > 12 mm with a 50 mm detection area for the standard resolution variant
- Sensing range from 0 up to max. 4.5 m
- Minimum distance between sensor and reflector 0.5 m
- Intensive red light for easy alignment
- CTA automatically adjusts the switching threshold as contamination occurs over time

Your benefits

- Reliable detection regardless of target position within the array: detection height 50 mm (MDO: > 12 mm) or detection height 24 mm (MDO: > 5 mm)
- Less installation effort compared to light grids or multiple single-point photoelectric sensors
- PinPoint technology and optical alignment procedure enables simple and quick commissioning
- Continuous Threshold Adjustment (CTA) ensures less downtime

→ www.mysick.com/en/Reflex_Array

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com/en/Reflex_Array

Reflex Array Sensor

- Switching output: PNP








Sensing range max.	Detection height	Minimum object size	Connection	Model name	Part no.
0 m ... 1.5 m ¹⁾	24 mm	≥ 5 mm	Cable with plug, M12, 4-pin	WL27-3P3402S17	1051529
0 m ... 3.5 m ²⁾	45 mm	≥ 8 mm	Cable with plug, M12, 4-pin	WL27-3P3402S19	1056382
0 m ... 4.5 m ²⁾ 0 m ... 2 m ¹⁾	50 mm	≥ 12 mm	Cable with plug, M12, 4-pin	WL27-3P3402S13	1046538
			Cable, 4-wire	WL27-3P1102S16	1050825

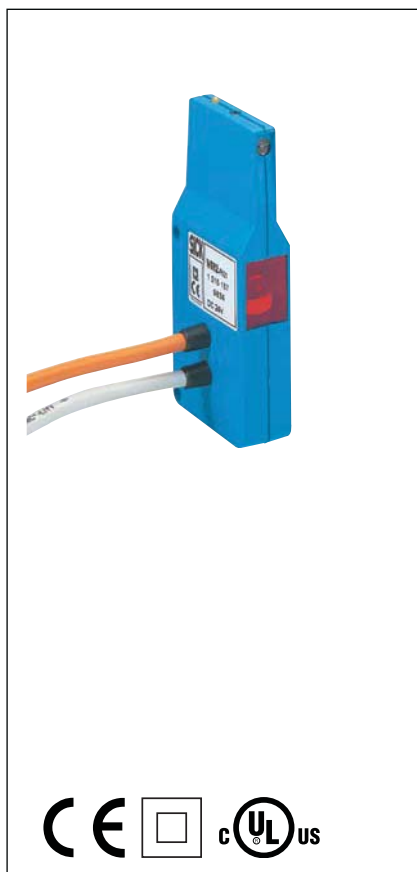
¹⁾ PL40A.

²⁾ PL80A.

Accessories

B

	Accessory category	Accessory type	Dimensions (L x W)	Material	Model name	Part no.
	Device protection (mechanical)	Protective housing/tubes	–	Zinc plated steel (protective housing), Diecast zinc (clamp)	BEF-SG-W27	2039601
	Mounting brackets/plates	Mounting brackets	–	Steel, zinc coated	BEF-WN-W23	2019085
					BEF-WN-W27	2009122
	Reflectors	Angular	37 mm x 56 mm	PMMA/ABS	PL40A	1012720
			80 mm x 80 mm	PMMA/ABS	PL80A	1003865
	Terminal and alignment brackets	Universal terminal systems	–	Steel, zinc coated	BEF-KHS-A01	2022458
				Zinc plated steel (sheet), Diecast zinc (clamp)	BEF-KHS-N04	2051610



At a glance

- Product variants of sensor + logic + valve in one housing are available
- Housing design suited for mounting between the rollers of roller conveyor
- Precise background suppression with adjustable sensing range from 300 mm to 900 mm
- Modular structure - with or without solenoid valve or motor actuation, with or without logic

Your benefits

- Easy installation due to all-in-one solution: sensor + logic + valve in one housing
- Unique design allows mounting under the conveyor protecting the sensor from damage, increasing product life
- Adjustable background suppression ignores background and reliably detects products without a reflector
- Stand-alone solution that consolidates cabling, and allows for modular expansion
- Easy and reliable control of product flow reduces damage and jams, therefore reducing cost

→ www.mysick.com/en/WTR

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information


Other models available at www.mysick.com/en/WTR

Photoelectric proximity sensor

- **Detection principle:** background suppression
- **Sensing range:** 300 mm x 900 mm
- **Connection:** connector M12, 4-pin

Actuator control	Switching output	Switching mode	Model name	Part no.
None, passive sensor head	PNP	Light-switching	WTR2-P511	1015158
		Dark-switching	WTR2-P521	1015074
			WTR2-P521S09	1024302
		Light/dark-switching	WTR2-P551S08	1022927
Pneumatic	PNP	Light/dark-switching	WTR2-N551	1018877
		Dark-switching	WTR2-P621S22	1040597
			WTR2-P621S27	1042271

Accessories

	Accessory category	Accessory type	Material	Model name	Part no.
	Mounting brackets/plates	Mounting brackets	Steel, zinc coated	BEF-WK-WTR	2051786
		Mounting plates	Steel, zinc coated	BEF-WN-WTR	2017417

B



At a glance

- Terminal screwed connectors with screw connection or push-in connection (M8 angled)
- Connecting and extension cables with PUR cable for flexible and demanding areas of application. Very high resistance to oils, lubricants, and coolants.
- Connecting and extension cables with PVC cable for use with medium mechanical stresses in dry zones, such as assembly lines, packaging, and material handling. The outer sheath features good resistance to chemicals, but PVC has only limited resistance to lubricants and coolants.
- Connecting and extension cables from the IP 69K series are especially suitable for use in the food and beverage industry due to their high resistance to chemicals, acids, alkalis, and cleaning agents

Your benefits

- Operational reliability because the connection systems are designed for the sensors
- High quality components with long-service life helps reduce costs
- Reliable signal transmission is critical to high productivity

→ www.mysick.com/

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.



Ordering information

Other models available at www.mysick.com

- **Model:** female connector

Connection	Flying leads	Cable material	Cable length	Model name	Part no.
M8, 3-pin	Straight	PVC	2 m	DOL-0803-G02M	6010785
			5 m	DOL-0803-G05M	6022009
		PUR halogen-free	2 m	DOL-0803-G02MC	6025888
			5 m	DOL-0803-G05MC	6025889
	Angled	PVC	2 m	DOL-0803-W02M	6008489
			5 m	DOL-0803-W05M	6022010
		PUR halogen-free	2 m	DOL-0803-W02MC	6025891
			5 m	DOL-0803-W05MC	6025892
M8, 4-pin	Straight	PVC	2 m	DOL-0804-G02M	6009870
			5 m	DOL-0804-G05M	6009872
		PUR halogen-free	2 m	DOL-0804-G02MC	6025894
			5 m	DOL-0804-G05MC	6025895
	Angled	PVC	2 m	DOL-0804-W02M	6009871
			5 m	DOL-0804-W05M	6009873
		PUR halogen-free	2 m	DOL-0804-W02MC	6025897
			5 m	DOL-0804-W05MC	6025898
M12, 4-pin	Straight	PVC	2 m	DOL-1204-G02M	6009382
			5 m	DOL-1204-G05M	6009866
		PUR halogen-free	2 m	DOL-1204-G02MC	6025900
			5 m	DOL-1204-G05MC	6025901

Connection	Flying leads	Cable material	Cable length	Model name	Part no.
M12, 4-pin	Angled	PVC	2 m	DOL-1204-W02M	6009383
			5 m	DOL-1204-W05M	6009867
		PUR halogen-free	2 m	DOL-1204-W02MC	6025903
			5 m	DOL-1204-W05MC	6025904
M12, 5-pin	Straight	PVC	2 m	DOL-1205-G02M	6008899
			5 m	DOL-1205-G05M	6009868
		PUR halogen-free	2 m	DOL-1205-G02MC	6025906
			5 m	DOL-1205-G05MC	6025907
	Angled	PVC	2 m	DOL-1205-W02M	6008900
			5 m	DOL-1205-W05M	6009869
		PUR halogen-free	2 m	DOL-1205-W02MC	6025909
			5 m	DOL-1205-W05MC	6025910