



G6

Beyond the standard Global sensor – the economic way to business class performance

MINIATURE PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Technical data overview

Dimensions (W x H x D)	12 mm x 31.5 mm x 21 mm
Sensing range max.	$\leq 300 \text{ mm}^1$ $\leq 900 \text{ mm}$ $5 \text{ mm} \dots 250 \text{ mm}^1$ $\leq 240 \text{ mm}^2$ $5 \text{ mm} \dots 100 \text{ mm}^1$ $5 \text{ mm} \dots 400 \text{ mm}^1$ $5 \text{ mm} \dots 450 \text{ mm}^1$ $5 \text{ mm} \dots 500 \text{ mm}^1$ $6 \text{ mm} \dots 250 \text{ mm}^1$ $15 \text{ mm} \dots 220 \text{ mm}^1$ $5 \text{ mm} \dots 110 \text{ mm}^1$ $0 \text{ mm} \dots 70 \text{ mm}^1$ $\leq 6 \text{ m}^3$ $\leq 7.2 \text{ m}^3$ $0.03 \text{ m} \dots 6 \text{ m}^3$ $\leq 6 \text{ m}^1$ $\leq 4.5 \text{ m}^3$ $\leq 5 \text{ m}^3$ $\leq 2.5 \text{ m}^4$ $\leq 7.2 \text{ m}$ $0 \text{ m} \dots 15 \text{ m}$ $0 \text{ m} \dots 14.5 \text{ m}$ $0 \text{ m} \dots 2 \text{ m}$ $0 \text{ m} \dots 10 \text{ m}$ $\leq 400 \text{ mm}^3$
Light source	PinPoint LED / LED (depending on type)
Type of light	Visible red light / Infrared light (depending on type)
Enclosure rating	IP67
Housing material	Plastic ABS/PC
Adjustment	Mechanical spindle, 5 turns Non-sealed No adjustment possibility Potentiometer, 270° Potentiometer, 270° Sensitivity None

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

²⁾ Fixed sensing range of 240 mm on black (6% Remission).

³⁾ Reflector PL80A.

⁴⁾ Reflector PL20A.

Product description

The G6 Global photoelectric sensor is enclosed in a miniature housing and delivers an optimum price-performance ratio. The Global sensor achieves outstanding performance when mounted with a standard 1-inch hole distance. With PinPoint LEDs, metal inserts for mounting, large and bright indicator LEDs, user-friendly setting screws, IP67 enclosure rating, and the very latest SICK ASIC technology, the Global sensor truly is raising the bar.

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

Ordering information

Other models and accessories → www.sick.com/G6

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Energetic
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 mm ... 70 mm	NPN	None	Cable, 3-wire, 2 m ¹⁾	GTE6-N1201S94	1104698
5 mm ... 110 mm	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GTE6-N1201S56	1075054
				GTE6-N1201S72	1088411
	PNP	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GTE6-P1201S64	1085281
				Male connector M8, 4-pin ¹⁾	GTE6-P4201S57
			GTE6-P4201S63	1083159	
≤ 300 mm	NPN	Potentiometer	Cable with connector M8, 3-pin, 200 mm ¹⁾	GTE6-N0211S05	1054573
				Cable, 3-wire, 2 m ¹⁾	GTE6-N1211
			GTE6-N1211S39		1066962
			GTE6-N1211S96		1106538
			GTE6-N1212		1051784
			Male connector M8, 4-pin	GTE6-N4211	1050711
	GTE6-N4212	1051782			
	PNP	Potentiometer	Cable with M12 male connector, 4-pin, 300 mm ¹⁾	GTE6-P7211	1053589
				GTE6-P7212	1053628
			Cable, 3-wire, 2 m ¹⁾	GTE6-P1211	1050712
				GTE6-P1212	1051783
			Male connector M8, 4-pin	GTE6-P4211	1050710
GTE6-P4212				1051781	

¹⁾ Do not bend below 0 °C.

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
≤ 900 mm	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GTE6-N1231	1065745
				GTE6-N1231S95	1105719
				GTE6-N1232	1081668
			Connector M8, 3-pin	GTE6-N3231	1068920
			Male connector M8, 4-pin	GTE6-N4231	1065761
				GTE6-N4232	1070544
	PNP	Potentiometer	Cable with M12 male connector, 4-pin, 300 mm ¹⁾	GTE6-P7231	1113824
			Cable with M8 male connector, 4-pin, 300 mm ¹⁾	GTE6-P6231	1080231
			Cable, 3-wire, 2 m ¹⁾	GTE6-P1231	1065760
				GTE6-P1232	1069726
			Connector M8, 3-pin	GTE6-P3231	1068919
			Male connector M8, 4-pin	GTE6-P4231	1065730

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Energetic
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
≤ 300 mm	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GTE6-N1412S98	1109100
≤ 900 mm	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GTE6-N1431S100	1111611

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
5 mm ... 100 mm	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GTB6-N1211S44	1068476

¹⁾ Do not bend below 0 °C.

²⁾ ± 14 mm.

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
5 mm ... 250 mm	NPN	Potentiometer	Cable with M8 male connector, 4-pin, 300 mm	GTB6-N6211	1058774
				GTB6-N6212	1058769
			Cable with connector, JST, 3-pin, 2 m ¹⁾	GTB6-N0211S58	1080320
				Cable, 3-wire, 1,900 mm ¹⁾	GTB6-N1212S37
			Cable, 3-wire, 1.9 m ¹⁾	GTB6-N1211S38	1066320
			Cable, 3-wire, 2 m ¹⁾	GTB6-N0211S51	1072044
				GTB6-N0211S80	1095969
				GTB6-N1211	1052441
				GTB6-N1211S40	1066965
			5 mm ... 250 mm	NPN	Potentiometer
GTB6-N1212	1052445				
Cable, 3-wire, 5 m ¹⁾	GTB6-N0211S36	1065839			
Male connector M8, 4-pin	GTB6-N4211	1052439			
	GTB6-N4212	1052443			

¹⁾ Do not bend below 0 °C.

²⁾ ± 14 mm.

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
	PNP	Potentiometer	Cable with M12 male connector, 4-pin, 2 m ¹⁾	GTB6-P0211S50	1070574
			Cable with M12 male connector, 4-pin, 300 mm	GTB6-P7211	1057705
				GTB6-P7212	1087972
			Cable with M8 male connector, 4-pin, 1 m	GTB6-P0211S52	1073737
			Cable with M8 male connector, 4-pin, 300 mm	GTB6-P0211S55	1075662
				GTB6-P6211	1059320
				GTB6-P6211P03	1098967
			Cable with M8 male connector, 4-pin, 3 m	GTB6-P0211S54	1075587
			Cable with M8 male connector, 4-pin, 500 mm	GTB6-P0211S60	1081533
			Cable with M8 male connector, 4-pin, angled, with rotatable threaded connector, 300 mm	GTB6-P0211S74	1089252
			Cable with connector M8, 3-pin, 300 mm	GTB6-P5211	1059333
				GTB6-P5211S78	1093698
			Cable, 3-wire, 2 m ¹⁾	GTB6-P1211	1052440
				GTB6-P1212	1052444
			Connector M8, 3-pin	GTB6-P3211	1084646
			Male connector M8, 4-pin	GTB6-F4211	1101441
				GTB6-P4211	1052438
				GTB6-P4211S66	1086856
				GTB6-P4211S83	1096868
5 mm ... 400 mm	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GTB6-N1231	1077714
	PNP	Potentiometer	Cable with M12 male connector, 4-pin, 300 mm ¹⁾	GTB6-P0231S68	1087744
			Cable with M8 male connector, 4-pin, 239 mm ²⁾	GTB6-P0231S79	1095116
			Cable, 3-wire, 2 m ¹⁾	GTB6-P1231	1074135
			Male connector M8, 4-pin	GTB6-P4231	1079712

¹⁾ Do not bend below 0 °C.

²⁾ ± 14 mm.

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** Infrared light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
5 mm ... 450 mm	PNP	Potentiometer	Cable with M8 male connector, 4-pin, 300 mm ¹⁾	GTB6-P6441	1087334
			Cable with connector M8, 3-pin, 300 mm ¹⁾	GTB6-P5441S73	1088429
			Cable, 3-wire, 2 m ¹⁾	GTB6-P1441S46	1069066
			Connector M8, 3-pin	GTB6-P3441	1080971
			Male connector M8, 4-pin	GTB6-P4441	1082824
5 mm ... 500 mm	PNP	Potentiometer	Cable with M12 male connector, 4-pin, 300 mm ¹⁾	GTB6-F7441S76	1090968
				GTB6-F7441S82	1096774
				GTB6-P7441S56	1077541
			Cable with connector M8, 3-pin, 300 mm ¹⁾	GTB6-P5441	1081388
≤ 240 mm	PNP	None	Cable with M12 male connector, 4-pin, 300 mm ¹⁾	GTB6-F7441S65	1086343

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- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** Infrared light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
5 mm ... 450 mm	NPN	Potentiometer	Cable with connector M8, 3-pin, 300 mm ¹⁾	GTB6-N5241	1097461
			Cable, 3-wire, 2 m ¹⁾	GTB6-N1241	1082905
	PNP	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GTB6-P1241	1097680
			Male connector M8, 4-pin	GTB6-P4241	1082863

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
6 mm ... 250 mm	PNP	Potentiometer	Connector M8, 3-pin	GTB6-P3411S41	1067605

- **Sensor principle:** Photoelectric proximity sensor
- **Detection principle:** Background suppression
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
15 mm ... 220 mm	PNP	Potentiometer	Cable with Stocko-connector (MKF-13264), 300 mm ¹⁾	GTB6-P0011S90	1098048
5 mm ... 250 mm	PNP	Potentiometer		GTB6-P0211S57	1077853
				GTB6-P0611S59	1081383

¹⁾ Do not bend below -30 °C.

- **Sensor principle:** Photoelectric retro-reflective sensor
- **Detection principle:** Dual lens
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0.03 m ... 6 m	PNP	None	Male connector M8, 4-pin	GL6-P4111	1050706
≤ 400 mm	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GL6G-N1211S72	1085829
	PNP	Potentiometer	Cable with M8 male connector, 4-pin, 300 mm ¹⁾	GL6G-P6211S95	1103554
			Cable, 3-wire, 2 m ¹⁾	GL6G-P1211S83	1094109
			Male connector M8, 4-pin	GL6G-P4211S97	1104671

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Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
≤ 6 m	NPN	Potentiometer	Cable with M12 male connector, 4-pin, 300 mm	GL6-N7210S74	1087897
				GL6-N7211	1087771
				GL6-N7212	1087770
			Cable with M8 male connector, 4-pin, 300 mm	GL6-N6211	1062587
				GL6-N6212	1062588
				Cable, 3-wire, 2 m ¹⁾	GL6-N1211
	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GL6-N1211P14	1102680
				GL6-N1211S27	1062937
				GL6-N1211S98	1105720
				GL6-N1212	1060814
				GL6-N1212P16	1105101
				GL6-N1212S99	1105729
	≤ 6 m	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GL6G-N1211
GL6G-N1212					1060811
GL6G-N1212S01					1066255
Connector M8, 3-pin				GL6-N3211	1094438
				GL6-N3212	1094437

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Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.				
			Male connector M8, 4-pin	GL6-N4211	1059631				
				GL6-N4212	1063491				
				GL6G-N4211	1059633				
				GL6G-N4212	1060809				
		None		Cable with AMP connector, 3,700 mm ¹⁾		GL6-N0111S13	1059088		
						GL6-N0111S12	1059087		
				Cable, 3-wire, 2 m ¹⁾				GL6-N1111	1050709
								GL6-N1111S39	1066964
								GL6-N1112	1051780
								GL6-N1112S70	1084571
				Cable with male connector, MOLEX 3-pin 3pitch 4,2 mm (9-01-4033) and contact pin AWG28 (39-00-0048), 600 +/- 10 mm (incl. 20 +/- 2 mm remote cable), 600 mm ¹⁾				GL6-N0111S89	1099322
								GL6-N4111	1050707
								GL6-N4111S16	1061068
								GL6-N4112	1051778
	PNP	Potentiometer		Cable with M12 male connector, 4-pin, 2 m	GL6-P0211S49	1070568			
					GL6-P0212S48	1070569			
		Potentiometer			Cable with M12 male connector, 4-pin, 300 mm	GL6-P7211	1066884		
						GL6-P7211P05	1067329		
						GL6-P7212S55	1070552		
						GL6G-P7211S96	1103653		
≤ 6 m	PNP	Potentiometer	Cable with M8 male connector, 4-pin, 300 mm	GL6-P6211	1058851				
				GL6-P6212	1062753				
			Cable with M8 male connector, 4-pin, 500 mm				GL6-P0211S69	1081522	
							GL6-P0211S104	1113341	
			Cable with connector M8, 4-pin, with knurled nuts, 300 mm						
									GL6-P0211S78
			Cable, 3-wire, 10 m ¹⁾						

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Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
	PNP	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GL6-P0211S23	1062586
				GL6-P1211	1059922
			Cable, 3-wire, 2 m ¹⁾	GL6-P1212	1060815
				GL6G-P1211	1059924
				GL6G-P1212	1060812
			Cable, 3-wire, 5 m ¹⁾	GL6-P0211S77	1089461
			Connector M8, 3-pin	GL6-P3211	1068921
				GL6-P3212	1068970
				GL6-P3212S63	1073763
			Male connector M8, 4-pin	GL6-F4611	1068338
		GL6-P4211		1059241	
		GL6-P4212		1062110	
		GL6G-P4211		1059632	
		GL6G-P4211S71		1084967	
		None	Cable with M8 male connector, 4-pin, 300 mm ¹⁾	GL6G-P4211S73	1086956
				GL6G-P4212	1060810
				GL6-P6111	1060234
			Cable with connector M8, 3-pin, 200 mm ¹⁾	GL6-P6111P13	1098966
		GL6-P6112		1060235	
		≤ 6 m	PNP	None	Cable with connector M8, 3-pin, 200 mm ¹⁾
GL6-P0112P07	1081328				
Cable with connector M8, 3-pin, 500 mm ¹⁾	GL6-P0111S08				1057193
	GL6-P0111S64				1074238
Cable, 3-wire, 2 m ¹⁾	GL6-P1111				1050708
	GL6-P1112				1051779

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Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
	PNP	None		GL6-P1112S84	1094532
			Cable, 3-wire, 3 m ¹⁾	GL6-P0112S52	1071362
			Cable, 3-wire, 5 m ¹⁾	GL6-P0112S54	1071368
			Cable, 4-wire, 5 m ¹⁾	GL6-F0311S47	1069245
			Cable, 4-wire, 5 mm ¹⁾	GL6-F03111S58	1073531
			Male connector M12, 4-pin, 100 mm ¹⁾	GL6-P0111S71	1086027
				GL6-P0112S72	1086028
			Male connector M12, 4-pin, 150 mm ¹⁾	GL6-P0111S18	1061608
			Male connector M12, 4-pin, 300 mm ¹⁾	GL6-F7511	1061399
				GL6-P7111	1052966
				GL6-P7111S36	1065392
				GL6-P7112	1053590
			Male connector M12, 4-pin, 300 mm ²⁾	GL6-F7511S44	1068756
			Male connector M8, 4-pin	GL6-P4110P09	1088584
				GL6-P4110P11	1090376
				GL6-P4110P19	1113305
				GL6-P4111S01	1052553
				GL6-P4111S92	1102163
				GL6-P4112	1051777
			Male connector M8, 4-pin ¹⁾	GL6-O4511S81	1093209
≤ 7.2 m	PNP	Potentiometer	Male connector M8, 4-pin	GL6-F4611S55	1072662
None		200 mm ¹⁾	GL6-P0111S25	1062887	
		Cable with Tyco connector, 550 mm ¹⁾	GL6-P0111S09	1058698	
		Cable with connector M8, 4-pin, with knurled nuts, 1 m ¹⁾	GL6-P0111S62	1073739	
		Cable with connector M8, 4-pin, with knurled nuts, 3 m ¹⁾	GL6-P0111S61	1073738	
		Cable, 3-wire, 2 m ¹⁾	GL6-P1111S57	1073479	
		Male connector M8, 4-pin	GL6-P4111S46	1069178	

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²⁾ Can be bent to -30 °C.

- **Sensor principle:** Photoelectric retro-reflective sensor
- **Detection principle:** Dual lens
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
≤ 6 m	NPN	None	Cable, 3-wire, 2 m ¹⁾	GL6-N1311S22	1062692
	PNP	Potentiometer	Cable with M8 male connector, 4-pin, 300 mm ¹⁾	GL6-V6411	1100566
			Cable with connector M8, 3-pin, 500 mm	GL6G-P0411S45	1068944
	None	None	Cable with M8 male connector, 4-pin, 300 mm ¹⁾	GL6-V6311	1101833
			Cable with WAGO terminal 733-103, 700 mm ¹⁾	GL6-P0311S66	1079226
			Cable with connector M8, 3-pin, 200 mm ¹⁾	GL6-P0311S40	1066976
				GL6-P0312P08	1081349
			Cable, 3-wire, 2 m ¹⁾	GL6-P1311	1079225
			Connector M8, 3-pin	GL6-P3311	1081007
			Male connector M12, 4-pin, 300 mm ¹⁾	GL6-P7311	1066207
				GL6-P7312	1066208
	Male connector M8, 4-pin ¹⁾	GL6-F4311	1066751		
	≤ 7.2 m	PNP	None	Cable, 3-wire, 2 m ¹⁾	GL6-P1311S41

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- **Sensor principle:** Photoelectric retro-reflective sensor
- **Detection principle:** Dual lens
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
≤ 6 m	NPN	Potentiometer	Cable, 3-wire, 3 m ¹⁾	GL6G-N0611S43	1068695

¹⁾ Do not bend below 0 °C.

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
	PNP	None	Cable with M8 male connector, 4-pin, 200 mm ¹⁾	GL6-P0511S03	1052911
				GL6-P0511S80	1090639
			Cable with M8 male connector, 4-pin, 500 mm ¹⁾	GL6-P0511S76	1088287
				GL6-P0511S86	1097463
			Cable with MOLEX-connector 43020-0409, 100 mm ¹⁾		
			Cable with Phoenix connector, 2 m ¹⁾	GL6-P0511S11	1058790
			Cable with connector M8, 3-pin, 200 mm ¹⁾	GL6-P0511S02	1052633
				GL6-P0511S19	1061962
			Cable with connector M8, 3-pin, 300 mm ¹⁾	GL6-P0511S103	1112760
			Cable with connector, JST, 3-pin, 600 mm ¹⁾	GL6-P0511P20	1114857
				GL6-P0511S56	1073104
			Cable, 3-wire, 2 m ¹⁾	GL6-P1511	1079227
			Cable, 3-wire, 4 m ¹⁾	GL6-P0511S67	1079228
			Cable, 3-wire, 700 mm ¹⁾	GL6-P0511S68	1079229
			Cable, 4-wire, 2 m ¹⁾	GL6-F2511S65	1077362
			Male connector M12, 4-pin, 300 mm ¹⁾	GL6-P0512S60	1073718
				GL6-P7511	1056039
				GL6-P7511S33	1064241
			Male connector M12, 4-pin, 500 mm ¹⁾	GL6-P0511P10	1090218
Male connector M8, 4-pin	GL6-F4511S24	1062735			
	GL6-P4511	1052634			
	GL6-P4511S37	1065727			
≤ 7.2 m	PNP	None	Male connector M8, 4-pin	GL6-P4511S73	1086558

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- **Sensor principle:** Photoelectric retro-reflective sensor
- **Detection principle:** Dual lens
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
≤ 2.5 m	PNP	None	Cable with M8 male connector, 4-pin, 200 mm ¹⁾	GL6-P0511S17	1061393
≤ 4.5 m	NPN	Potentiometer		GL6G-N0611S88	1098975
		None		GL6-N0511S82	1093402

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Photoelectric retro-reflective sensor
- **Detection principle:** Dual lens
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
≤ 5 m	PNP	None	Cable with M8 male connector, 4-pin, 200 mm ¹⁾	GL6-P0111S91	1101834
≤ 7.2 m	NPN	None	Male connector M8, 4-pin	GL6-N4111S06	1054676

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 10 m	PNP	Potentiometer	Male connector M8, 4-pin	GE6-P4211S69	2115957
				GE6-P4212S71	1112774

¹⁾ Do not bend below 0 °C.

²⁾ Do not bend below 35 °C.

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.		
0 m ... 15 m	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GSE6-N1211	1060791		
				GSE6-N1212	1060795		
			Male connector M8, 4-pin	GSE6-N4211	1061395		
				GSE6-N4212	1061397		
			None	Cable with M12 male connector, 4-pin, 300 mm ¹⁾	GSE6-N7111	1054833	
					GSE6-N7112	1054835	
		Cable with M8 male connector, 4-pin, 300 mm ¹⁾		GSE6-N6111	1054849		
				GSE6-N6112	1054852		
		Cable, 3-wire, 2 m ¹⁾	GSE6-N0111S52	1072046			
			GSE6-N1111	1052449			
			GSE6-N1111S07	1056686			
			GSE6-N1111S15	1059191			
		0 m ... 15 m	NPN	None	Cable, 3-wire, 2 m ¹⁾	GSE6-N1112	1052453
						Male connector M8, 4-pin	GSE6-N4111
GSE6-N4112	1052451						
PNP	Potentiometer				Cable with M8 male connector, 4-pin, 300 mm ¹⁾	GSE6-P6211	1061847
			GSE6-P6212	1061848			

¹⁾ Do not bend below 0 °C.

²⁾ Do not bend below 35 °C.

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.	
			Cable with connector M8, 3-pin, 300 mm ¹⁾	GSE6-P5211	1079603	
			Cable with connector M8, 3-pin, 500 mm ¹⁾	GSE6-P0211S58	1084824	
			Cable, 3-wire, 2 m ¹⁾	GSE6-P1211	1060792	
				GSE6-P1212	1061398	
			Connector M8, 3-pin	GSE6-P3211	1067659	
			Male connector M8, 4-pin	GE6-P4211S67	2110029	
				GSE6-P4211	1061394	
				GSE6-P4212	1061396	
			None	Cable with M12 male connector, 4-pin, 300 mm ¹⁾	GSE6-P7111	1054830
					GSE6-P7112	1054831
		Cable with M8 male connector, 4-pin, 300 mm ¹⁾		GSE6-P6111	1054848	
				GSE6-P6112	1054850	
		Cable with connector, JST, 3-pin, 600 mm ²⁾		GSE6-P0111S51	1072004	
		Cable, 3-wire, 2 m ¹⁾		GSE6-P1111	1052448	
				GSE6-P1112	1052452	
		Male connector M8, 4-pin		GE6-P4111S64	2107414	
				GSE6-P4110P07	1088585	
				GSE6-P4110P11	1090374	
			GSE6-P4111	1052446		
					GSE6-P4112	1052450
0 m ... 2 m	NPN	None	Cable, 3-wire, 2 m ¹⁾	GSE6-N1112P04	1080814	
	PNP	None	Cable, 3-wire, 2 m ¹⁾	GSE6-P1112P03	1080299	

¹⁾ Do not bend below 0 °C.

²⁾ Do not bend below 35 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Voltage type:** DC
- **Switching mode:** Light/dark switching

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 15 m	NPN	None	Cable, 3-wire, 2 m ¹⁾	GE6-N1111S68	2110725

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** Infrared light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 14.5 m	NPN	None	Cable, 3-wire, 2 m ¹⁾	GSE6-N1321S54	1074344
	PNP	None	Cable, 3-wire, 0.5 m ¹⁾	GE6-P0321S71	2119996
				GSE6-P0321S71	1115663
			Cable, 3-wire, 2 m ¹⁾	GSE6-P1321S55	1078808

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Light/dark switching
- **Type of light:** Infrared light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.	
0 m ... 14.5 m	NPN	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GSE6-N1221	1064675	
				GSE6-N1221S65	1105721	
		None	Cable, 3-wire, 2 m ¹⁾	GSE6-N1121	1064653	
	PNP	Potentiometer	Cable, 3-wire, 2 m ¹⁾	GSE6-P1221	1073529	
		None		Cable with M12 male connector, 4-pin, 500 mm ¹⁾	GSE6-P0121S48	1070054
				Cable with connector M8, 3-pin, 700 mm ¹⁾	GSE6-P0121S56	1084759
				Cable, 3-wire, 2 m ¹⁾	GSE6-P1121S14	1059111
				Male connector M8, 4-pin	GSE6-P4121S31	1063527

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 15 m	NPN	None	Cable, 3-wire, 2 m ¹⁾	GSE6-N1311S57	1084773

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Switching mode:** Dark switching
- **Type of light:** visible red light

Sensing range max.	Switching output	Adjustment	Connection type	Type	Part no.
0 m ... 15 m	NPN	None	Cable with M8 male connector, 4-pin, 300 mm ¹⁾	GSE6-N6311	1062399
				GSE6-N6312	1062397
	PNP	None	Cable with connector M8, 3-pin, 300 mm ¹⁾	GSE6-P5310P10	1090341
				GSE6-P5311	1088017
				GSE6-P5311P12	1090897
			Cable, 3-wire, 2 m ¹⁾	GSE6-P1311S59	1084827

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** LED
- **Voltage type:** DC
- **Type of light:** Infrared light

Sensing range max.	Adjustment	Connection type	Type	Part no.
0 m ... 14.5 m	None	Cable, 3-wire, 0.5 m ¹⁾	GS6-P0321S71	2119995

¹⁾ Do not bend below 0 °C.

- **Sensor principle:** Through-beam photoelectric sensor
- **Light source:** PinPoint LED
- **Voltage type:** DC
- **Type of light:** visible red light

Sensing range max.	Adjustment	Connection type	Type	Part no.
0 m ... 10 m	None	Male connector M8, 4-pin	GS6-D4311S69	2115956
			GS6-D4312S71	1112773
0 m ... 15 m	None	Cable, 3-wire, 2 m ¹⁾	GS6-P1111S62	1092839
			Male connector M8, 4-pin	GS6-D4311
				GS6-D4311S66

¹⁾ Do not bend below 0 °C.

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