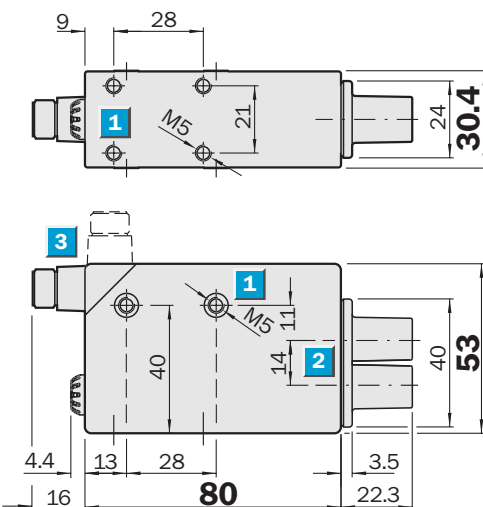


	Scanning distance up to 15 mm
Proximity mode	
	Scanning range up to 60 mm
Through-beam mode	

- Green light
- Switching threshold adjustable or static Teach-in to mark and background via control cable or control panel on unit or dynamic Teach-in
- Insensitive to ambient light

Dimensional drawing

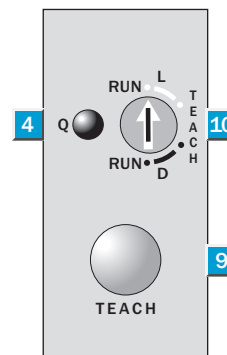
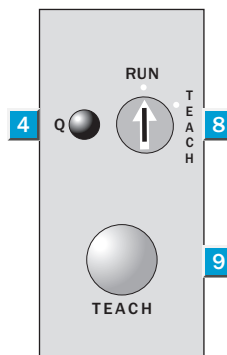
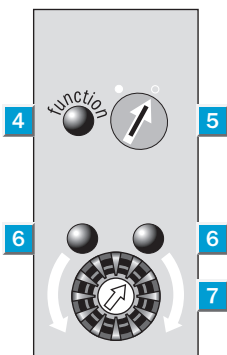
All types



- 1 M5 mounting holes, 5.5 mm deep
- 2 Fibre-optic adapter (M12 x 1 internal thread)
- 3 4-pin, M12 x 1 plug (rotatable through 90°)
- 4 Function signal indicator (yellow)
- 5 Operating mode selector switch
- 6 Light-switching
- 7 Dark-switching
- 8 Switching threshold adjustment
- 9 Adjustment indicators (green)
- 10 Pre-selection switch

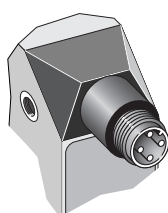
Adjustments possible

KTL 5G-2P11	KTL 5W-2P16	KTL 5W-2P23
KTL 5G-2N11		KTL 5W-2N13
KTL 5G-2P51		
KTL 5G-2N51		

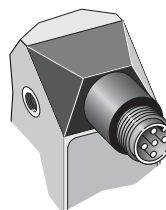


Connection type

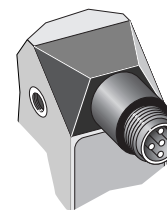
KTL 5G-2P11	KTL 5W-2P16	KTL 5W-2P23
KTL 5G-2N11		KTL 5W-2N13
KTL 5G-2P51		
KTL 5G-2N51		



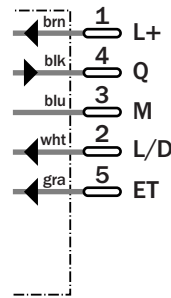
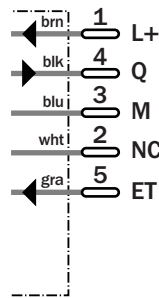
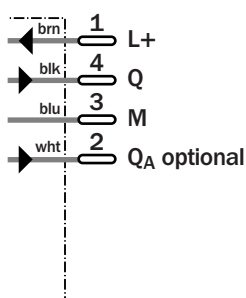
4-pin, M12



5-pin, M12x1



5-pin, M12x1



See chapter Accessories

- Cables and connectors
- Mounting systems
- Fibre-optic cable

Technical data	KTL 5	G-2P11	G-2P51	G-2N11	G-2N51		W-2P16	W-2P23	W-2N13		
Scanning distance/scanning range	15 mm/60 mm										
Light source¹⁾; light type;	LED; green;										
Wavelength (nm)	520										
Light source¹⁾; light type;	LED; red, green, blue;										
Wavelength (nm)	640, 525, 470										
Supply voltage V_s	10... 30 V DC ²⁾										
Residual ripple ³⁾	< 5 V _{pp}										
Current consumption ⁴⁾	< 30 mA at DC 24 V										
Switching outputs	Light-/dark-switching, selectable										
	PNP: HIGH = V _s - < 2 V/LOW = 0 V										
	NPN: HIGH = V _s /LOW = < 2 V										
Output current I _A max.	100 mA short-circuit protected										
Response time ⁵⁾ ; switching frequency ⁶⁾	50 μs; 10 000/s										
Time delay	No timing element										
	Deactivation delay, ... 20 ms										
Analogue output Q_A	0.3 ... 10 mA										
Connection type	Plug M12, 4-pin										
VDE protection class⁸⁾	□										
Enclosure rating	IP 67										
Ambient temperature T_A	Operation -10 ... +55 °C										
	Storage -25 ... +75 °C										
Shock load	To IEC 68										
Weight	Approx. 400 g										
Housing	Cast zinc										
Switching threshold adjustment/	Manual switching threshold setting ⁹⁾										
Teach-in											
	Dynamic Teach-in ¹⁰⁾										
	Static Teach-in ¹¹⁾										

¹⁾ Average service life 100,000 h at T_A = +25 °C
²⁾ Limit values
³⁾ May not exceed or fall short of V_s tolerances

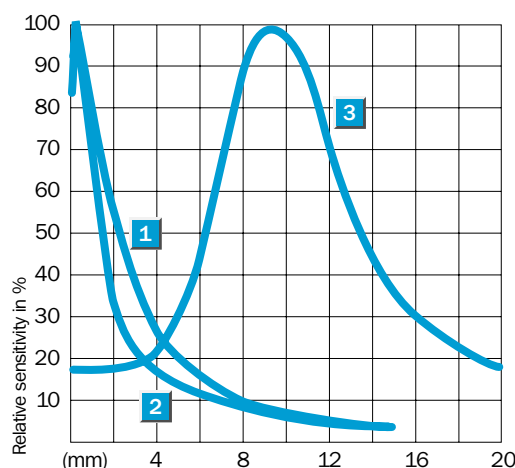
⁴⁾ Without load
⁵⁾ Signal transit time with resistive load
⁶⁾ With light/dark ratio 1:1
⁷⁾ Reference voltage 50 V DC

⁸⁾ A = V_s connections reverse-polarity protected
 B = Outputs short-circuit protected
 C = Interference pulse suppression

⁹⁾ See page 1107
¹⁰⁾ See page 1097
¹¹⁾ See page 1093

Scanning distance

- 1 Fibre-optic cable LBST 32900
- 2 Fibre-optic cable LBSR 32900
- 3 Fibre-optic cable OCSL



Order information

Preferred type ^{*)}	Order no.
KTL 5G-2P11	1 016 294
KTL 5G-2P51	1 016 950
KTL 5G-2N11	1 016 295
KTL 5G-2N51	1 016 951
KTL 5W-2P16	1 026 006
KTL 5W-2P23	1 019 551
KTL 5W-2N13	1 019 661

^{*)} Further types on request