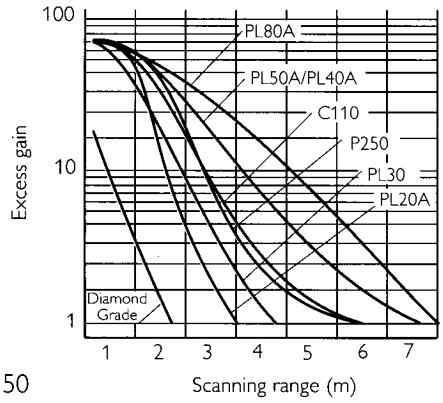
Scanning range

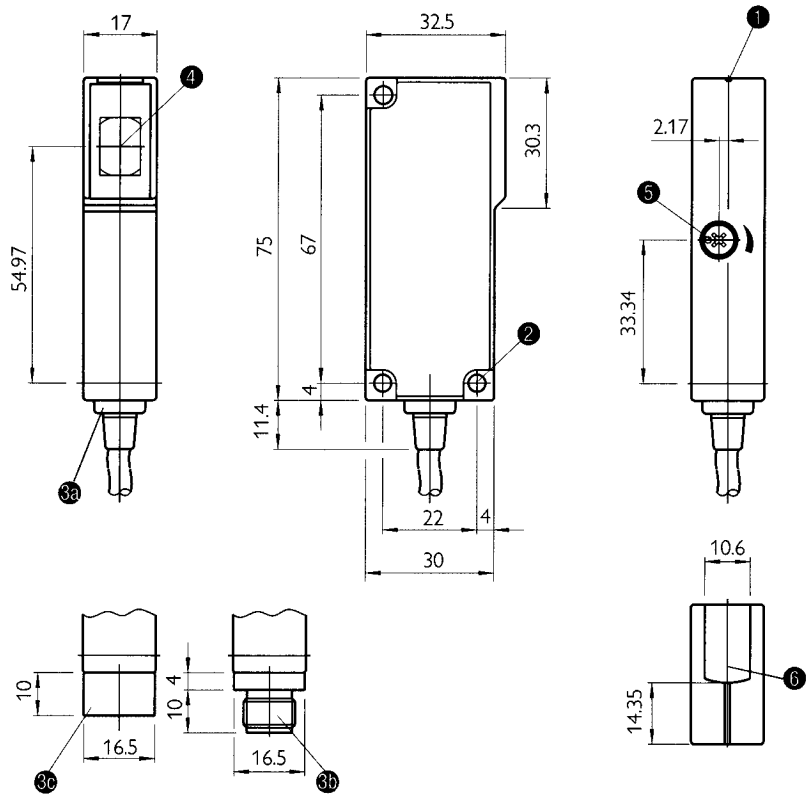
7 m

Features:

- Red-light emitter LED as align-ment aid
- Polarization filter allowing detec-tion of objects with reflective surfaces
- Contamination control and alignment aid by means of flashing LED signal strength indicator
- Test input
- Adjustable sensitivity
- Transistor outputs, PNP or NPN, short-circuit protected, comple-mentary
- No false triggering on power-up
- Insensitive to ambient light sources (HF lamps, hazard flash lamps)
- Reliable functioning when devices mounted opposite each other
- Permissible operating temperature – 40 to + 60 °C
- 2 m connection cable or various quick-disconnect plugs, e.g. M12
- Glass-fiber reinforced plastic housing
- CE



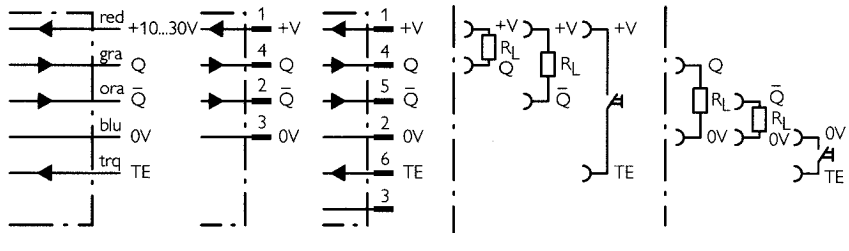
WL 18-2



1 Alignment sight
2 Mounting holes ø 4,1 mm
3a Standard cable
3b M12 plug, 4-pin
3c Plug connector, 6-pin (cube)
4 Center optical axis
5 Sensitivity adjuster
6 Status indicator, yellow

Connection diagram

WL 18-2 N 135
N 132, P 132 P 135 **P 430** **N 630, P 630** **-N NPN** **-P PNP**



red	gra	ora	blu	trq
red	gray	orange	blue	turquoise

Photoelectric reflex switch
WL 18-2

Type	WL 18 -2P132	-2P135	-2P430	-2P630	-2N132	-2N135	-2N630
Order No.	1 012 906	1 012 907	1 012 908	1 012 912	1 012 903	1 012 911	1 012 904
Connection type	Cable	Cable	Plug 4-pin	Plug 6-pin	Cable	Cable	Plug 6-pin
Cable receptacle, order No.			6 007 302/ 6 007 303	6 006 710			6 006 710
Mounting bracket, order No.	2 009 317						
Typical max. scanning range/with reflector	**7 m/PL 80 A**						
Recommended operating scanning range SR							
with reflector PL 80 A	Order No. 1 003 865			0 ... 5 m			
with reflector C 110	Order No. 5 304 549			0 ... 3 m			
with reflector PL 50 A	Order No. 1 000 132			0 ... 4 m			
with reflector PL 40 A	Order No. 1 012 720			0 ... 3 m			
with reflector PL 30 A	Order No. 1 002 314			0 ... 2.5 m			
with reflector PL 20 A	Order No. 1 012 719			0 ... 2 m			
with "Diamond Grade" reflective tape	Order No. 4 019 634			0 ... 1 m			
Supply voltage V_S	10 ... 30 V DC[1]						
Power consumption [2]	≤ 25 mA						
Ripple [3]	≤ 5 Vpp						
Light source	LED, visible red light, pulsating, average service life 100,000 hrs [4]						
Light spot diameter	approx. 40 mm at distance of 2 m						
Supply connections	PNP, Q and $\bar{Q}$				NPN, Q and $\bar{Q}$		
Signal voltage HIGH	V_S - 2.9 V				approx. V_S		
Signal voltage LOW [6]	approx. 0 V				≤ 1,5 V		
Max. output current I_O	100 mA						
Response time [5]; max. switching frequency [6]	≤ 500 µs; 1000/s						
Test input >TE<	Sender deactivation						
Sender active	+ V or unswitched				0 V or unswitched		
Sender inactive	0 V				+ V		
VDE protection class [7]	⧈						
Enclosure rating	IP 67		IP 65	IP 65	IP 67	IP 67	IP 65
Protection circuits [8]	A, B, C						
Ambient operating temperature T_A [9]	– 40 to + 60 °C						
Storage temperature T_S [9]	– 40 to + 75 °C						
Connecting cable	2 m, ø5 mm	5 m, ø5 mm		2 m, ø5 mm	5 m, ø5 mm		
	5x0.25 mm²	5x0.25 mm²		5x0.25 mm²	5x0.25 mm²		
Weight	approx. 100 g		30 g		100 g		30 g
Potentiometer	●	●	●	●	●	●	●

1) Limit value
2) Without load
3) Must not overshoot or undershoot V_S tolerances
4) Where T_U = + 25 °C
5) With resistive load
6) Where light-dark ratio = 1:1, without time delay
7) Withstand voltage DC 50 V
8) A = V_S connections, reverse polarity protected
B = Output Q and $\bar{Q}$, short-circuit protected
C = Interference pulse suppression
9) Do not distort cable at temperatures under 0 °C