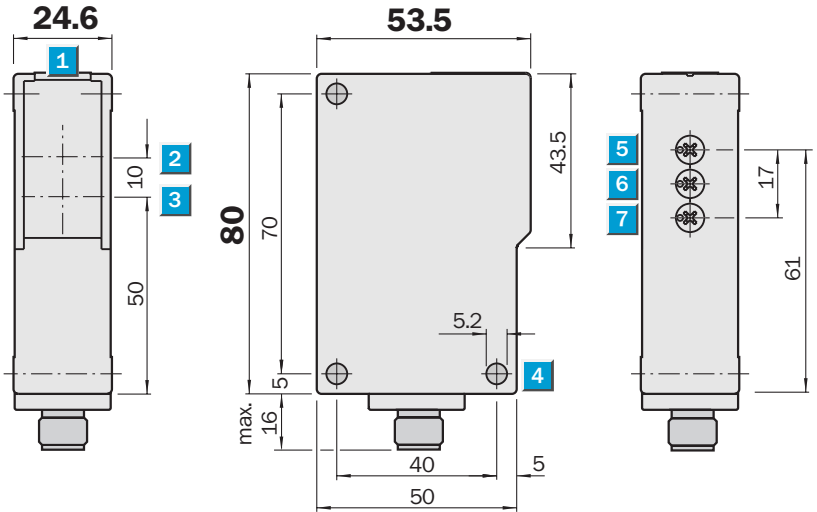


Scanning range
14 m
 Photoelectric reflex switches

- Red light
- Front screen heating, optional
- Selectable time delay

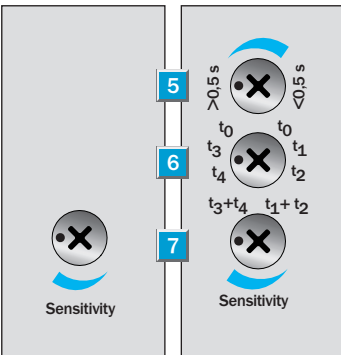


Dimensional drawing



Adjustments possible

WL 27-2F 132	WL 27-2P 630
WL 27-2F 440	WL 27-2N 630



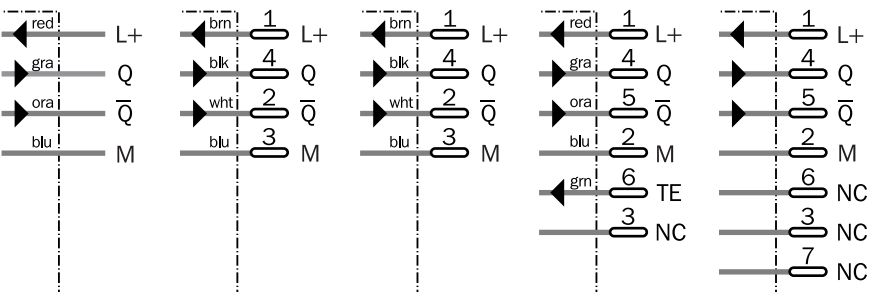
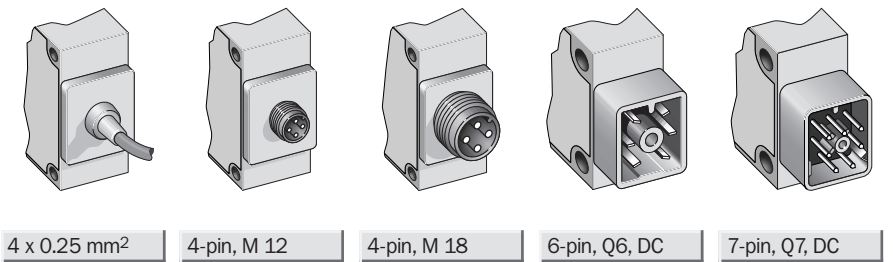
- 1 LED signal strength indicator
- 2 Optical axis, sender
- 3 Optical axis, receiver
- 4 Mounting hole \varnothing 5.2 mm
- 5 Time control
- 6 Time delay selector switch
- 7 Sensitivity adjustment

Switch-selectable time delay

0.5 – 10 s	0.02 – 0.5 s
t_0 Without time delay	t_0 Without time delay
t_3 ON-delay from interruption light path	t_1 ON-delay from interruption light path
t_4 OFF-delay from reset of light path	t_2 OFF-delay from reset of light path
$t_3 + t_4$ ON- and OFF-delay	$t_1 + t_2$ ON- and OFF-delay

Connection types

WL 27-2F 132	WL 27-2F 430	WL 27-2F 431	WL 27-2P 630	WL 27-2F 730
	WL 27-2F 440		WL 27-2N 630	
	WL 27-2F 450			



Accessories

Connectors
Mounting systems
Reflectors

Technical data		WL 27-2	F 132	F 430	F 431	F 440	F 450	P 630	F 730	N 630
Scanning range , max. typ./on reflector	14 m/PL 80 A									
	Adjustable sensitivity									
Light source¹⁾, light type	LED, red light									
Light spot diameter	Approx. 220 mm at 10 mm									
Supply voltage V_S	10...30 V DC ²⁾									
Ripple ³⁾	$\leq 5 V_{PP}$									
Current consumption ⁴⁾	$\leq 25 \text{ mA}$									
	$\leq 35 \text{ mA}$, front screen heating									
Switching outputs	PNP, Q and \bar{Q}									
	NPN, Q and \bar{Q}									
Output current I_A max.	100 mA									
Response time ⁵⁾	$\leq 500 \mu\text{s}$									
Max. switching frequency ⁶⁾	1000/s									
Selectable delay ranges	0.5...10 s/0.02...0.5 s									
Test input "TE", sender OFF	PNP : Test input to 0 V									
	NPN : Test input to V_S									
Connection types	Cable ⁷⁾ , 2 m									
	Plug									
VDE protection class⁸⁾	<input type="checkbox"/>									
Circuit protection⁹⁾	A, B, C									
Enclosure rating	IP 67									
	IP 65									
Ambient temperature T_A	Operation $-40 \text{ }^\circ\text{C} \dots +60 \text{ }^\circ\text{C}$									
	Storage $-40 \text{ }^\circ\text{C} \dots +75 \text{ }^\circ\text{C}$									
Weight	Approx. 100 g									
Front screen heating										
Polarising filter										
Housing material	ABS									

1) Average service life 100,000 h at $T_A = +25 \text{ }^\circ\text{C}$

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) Do not bend below $0 \text{ }^\circ\text{C}$

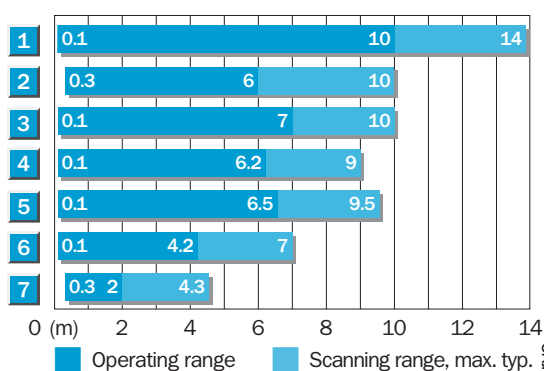
8) Reference voltage 50 V DC

9) A = V_S connections reverse-polarity protected

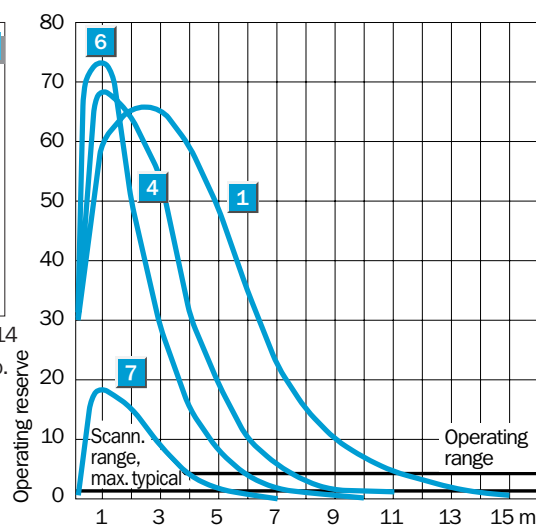
B = Output Q and \bar{Q} short-circuit protected

C = Interference pulse suppression

Operating range and operating reserve



Reflector type	Operating range
1 PL 80 A	0,1...10,0 m
2 C 110	0,3...6,0 m
3 PL 50 A	0,1...7,0 m
4 PL 40 A	0,1...6,2 m
5 PL 30 A	0,1...6,5 m
6 PL 20 A	0,1...4,2 m
7 Reflective tape "Diamond Grade"	0,3...2,0 m



Order information

Type	Part no.
WL 27-2F 132	1 015 100
WL 27-2F 430	1 013 269
WL 27-2F 431	1 015 106
WL 27-2F 440	1 015 101
WL 27-2F 450	1 015 102
WL 27-2P 630	1 015 108
WL 27-2F 730	1 015 104
WL 27-2N 630	1 015 107