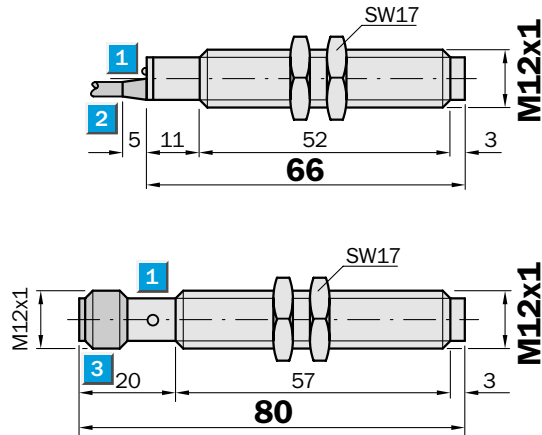


	Scanning distance 2...110 mm
	Scanning distance 2...210 mm
Photoelectric proximity switches	

- Robust metal housing
- Light-switching
- Cable or plug connection
- Reverse polarity and short circuit protection

Dimensional drawing

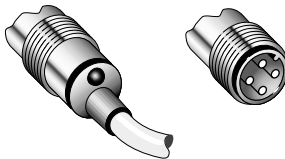


- 1** LED signal strength indicator, LED red
- 2** Connecting cable
- 3** 4-pin, M 12 plug



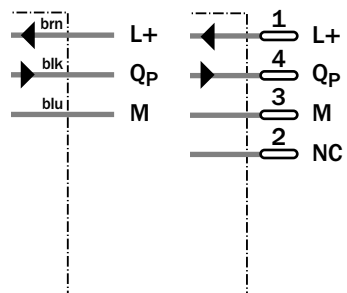
Connection types

VT 12-1 P 1112	VT 12-1 P 1410
VT 12-1 P 1132	VT 12-1 P 1430



Accessories	page
Cable receptacles	496
Mounting brackets	510

3 x 0.14 mm ²	4-pin, M 12
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Technical Data		VT 12 -	1P1112	1P1410	1P1132	1P1430						
Scanning distance , max. typical	2...110 mm ¹⁾											
Operating distance	5...100 mm ¹⁾											
Light source ²⁾ , light type	LED, infrared light											
Light spot diameter	Approx. 5 mm at 100 mm											
Angle of dispersion, sender	Approx. 2,8°											
Scanning distance , max. typical	2...210 mm ³⁾											
Operating distance	5...200 mm ³⁾											
Light source ²⁾ , light type	LED, infrared light											
Light spot diameter	Approx. 10 mm at 200 mm											
Angle of dispersion of sender	Approx. 2.8°											
Supply voltage V _S	10...30 V DC ⁴⁾											
Ripple ⁵⁾	± 10 %											
Current consumption ⁶⁾	≤ 20 mA											
Switching outputs	PNP, open collector: Q											
Output current I _A max.	200 mA											
Light receiver, switching mode	Light-switching											
Response time ⁷⁾	≤ 5.0 ms											
Max. switching frequency ⁸⁾	100/s											
Connection types cable	PVC, 2 m ⁹⁾ ; 3 x 0.14 mm ² , Ø 3.1 mm											
plug	4-pin, M12											
VDE protection class ¹⁰⁾	□											
Circuit protection ¹¹⁾	A, B, C, D											
Enclosure rating	IP 67											
Ambient temperature T _A	- 25 °C...+ 70 °C											
Weight	Approx. 70 g inc. cable											
	Approx. 35 g inc. plug											
Housing material	Nickel-coated brass housing/ PA;											
	Optics: PC											

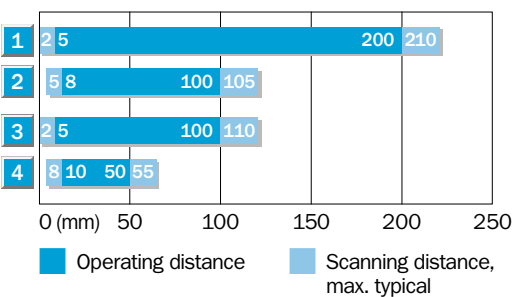
- 1) Object to be detected with 90 % remission (relating to standard white in acc. with DIN 5033)
 2) Average service life 100,000 h at T_A = + 25 °C

- 3) Object to be detected with 90 % remission 100 x 100 mm
 4) Limit values
 5) May not exceed or fall short of V_S tolerances

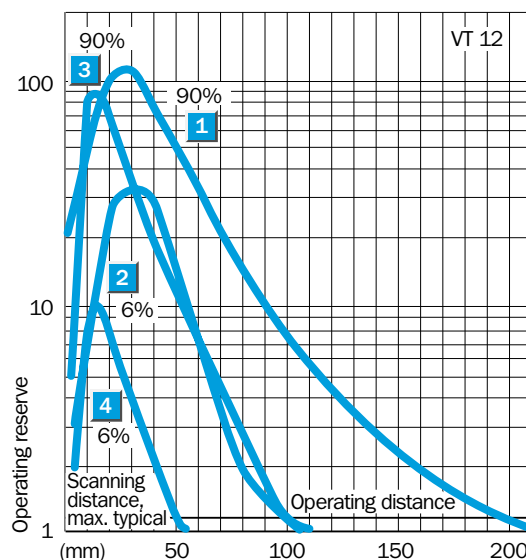
- 6) Without load
 7) Signal transit time with resistive load
 8) With light/dark ratio 1:1
 9) Do not bend below 0 °C
 10) Reference voltage DC 50 V

- 11) A = V_S connections reverse-polarity protected
 B = Inputs and outputs reverse-polarity protected
 C = Interference pulse suppression
 D = Outputs overload and short-circuit protected

Scanning distance



- 1) "Larger" scanning range on white, 90 % remission
 2) "Larger" scanning range on black, 6 % remission
 3) "Smaller" scanning range on white, 90 % remission
 4) "Smaller" scanning range on black, 6 % remission



Order information

Type	Part no.
VT12-1 P 1112	6 011 132
VT12-1 P 1410	6 011 133
VT12-1 P 1132	6 011 143
VT12-1 P 1430	6 011 134