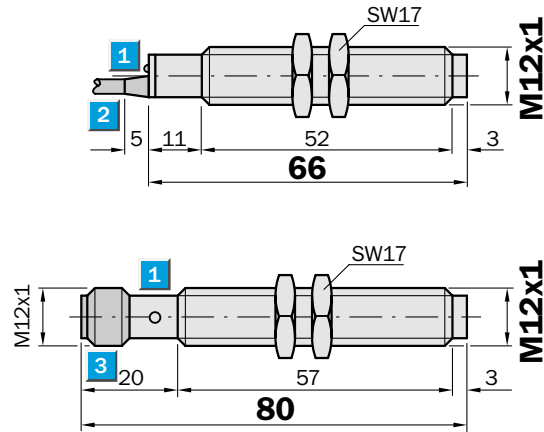


- Robust metal housing
- Dark-switching
- Cable or plug connection
- Reverse polarity and short circuit protection

Dimensional drawing

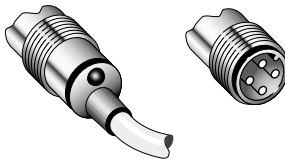


- 1 LED signal strength indicator, LED red (receiver VE 12 only)
- 2 Connecting cable
- 3 4-pin, M 12 plug

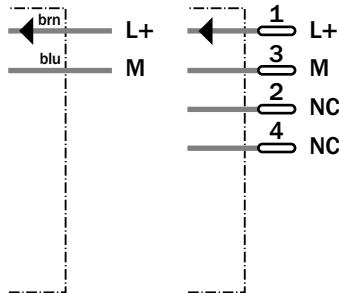
Connection types

VS/VE12-1 P2132

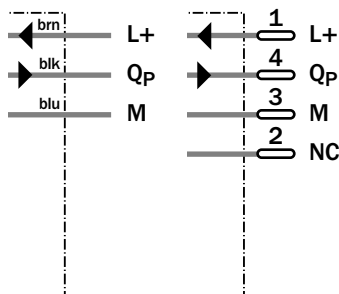
VS/VE12-1 P2430



Sender 2 x 0.14 mm² 4-pin, M12



Receiver 3 x 0.14 mm² 4-pin, M12



Accessories	page
Cable receptacles	496
Mounting brackets	510



Technical Data			VS/VE 12 -		1P2132	1P2430								
Scanning range , max. typical	5.0 m													
Operating range	4.0 m													
Light source ¹⁾ , light type	LED, infrared light													
Light spot diameter	Approx. 350 mm at 4 m													
Angle of dispersion, sender	Approx. 3°													
Angle of dispersion, receiver	Approx. 20°													
Supply voltage V_S	10...30 V DC ²⁾													
Ripple ³⁾	± 10 %													
Current consumption ⁴⁾	sender	≤ 20 mA												
	receiver	≤ 20 mA												
Switching outputs	PNP, open collector: Q													
Output current I_A max.	200 mA													
Light receiver, switching mode	Dark-switching													
Response time ⁵⁾	≤ 10 ms													
Max. switching frequency ⁶⁾	50/s													
Connection types														
cable	PVC, 2 m ⁷⁾													
sender VS	2 x 0.14 mm ² , Ø 3.1 mm													
receiver VE	3 x 0.14 mm ² , Ø 3.1 mm													
plug	4-pin, M12													
VDE protection class⁸⁾	□													
Circuit protection ⁹⁾	sender	A, B												
	receiver	A, B, C, D												
Enclosure rating	IP 67													
Ambient temperature T_A	- 25 °C...+ 70 °C													
Weight	inc. cable	Sender and receiver each approx. 70 g												
	inc. plug	Sender and receiver each approx. 35 g												
Housing material		Nickel-coated brass housing / PA;												
		Optics: PC												

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) Do not bend below 0 °C

8) Reference voltage 50 V DC

9) A = V_S connections reverse-polarity protected

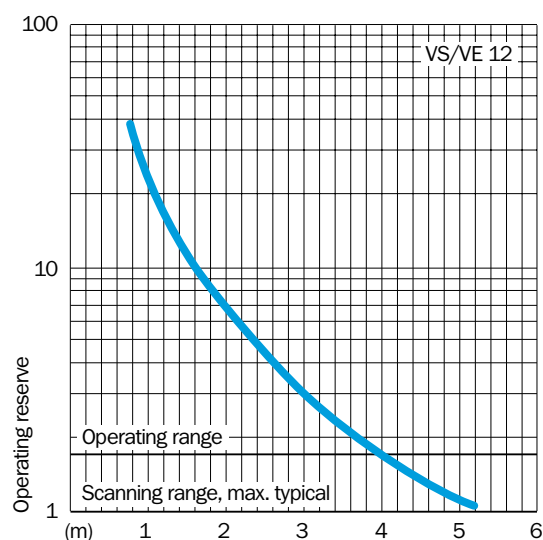
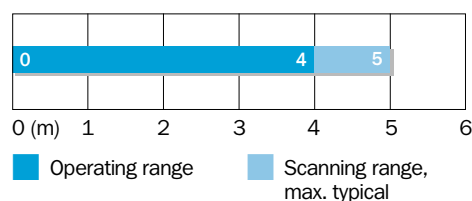
B = Inputs and outputs reverse-polarity protected

C = Interference pulse suppression

D = Outputs overload and short-circuit protected

10) Part no. includes sender and receiver unit

Scanning range



Order information

Type	Part no. ¹⁰⁾
VS/VE12-1P2132	6 011 141
VS/VE12-1P2430	6 011 142