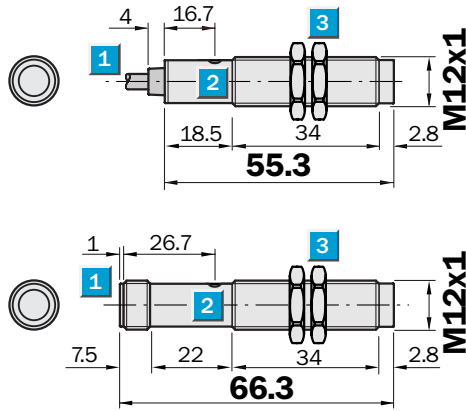


Scanning range
0 ... 5.0 m

Through-beam photoelectric switches

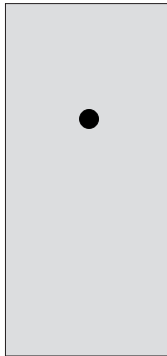
- Minimum number of variants:
Switching type L.ON or D.ON
selectable per control line L/D
- Sturdy M12 metal housing,
connection cable or M12 plug,
4-pin

Dimensional drawing



Adjustments possible

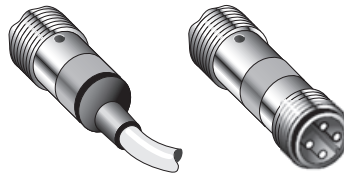
VS/VE 12-2P 132	VS/VE 12-2N 132
VS/VE 12-2P 430	VS/VE 12-2N 430



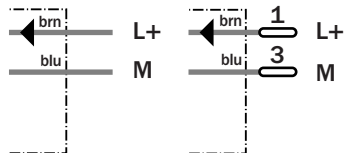
- 1 Cable or plug M12, 4-pin
- 2 Yellow LED indicator (continuously):
Sender VS 12-2:
– power on, sender active
receiver VE 12-2:
– light reception > switching threshold 1
- 3 Mounting nuts (2x), SW 17, metal

Connection types

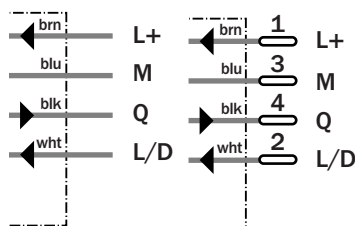
VS/VE 12-2P 132	VS/VE 12-2P 430
VS/VE 12-2N 132	VS/VE 12-2N 430



Sender	2 x 0.14 mm ²	4-pin, M12
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Receiver	4 x 0.14 mm ²	4-pin, M12
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See chapter Accessories
Cables and connectors
Mounting systems

Technical data	VS/VE 12-2	P 132	P 430	N 132	N 430						
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Scanning range, max. typ.	0 ... 5.0 m										
Operating range	0 ... 4.0 m										
Sensitivity setting	Not available										
Light source¹⁾, light type	LED, infrared light										
Light spot diameter	Approx. 100 mm at 4 m										
Angle of dispersion of sender	Approx. 1.4° (SR = max.),										
Angle of dispersion of receiver	Approx. 4.5° (SR = 1/2 max.)										
Supply voltage V_S	10 ... 30 V DC ²⁾										
Ripple ³⁾	≤ 10 %										
Current consumption ⁴⁾	≤ 20 mA										
Switching outputs	Q: PNP										
	Q: NPN										
Output current I _A max.	≤ 100 mA										
Switching mode	Light-/Dark-switching selectable ⁵⁾										
Response time ⁶⁾	≤ 2.0 ms										
Switching frequency max. ⁷⁾	250/s										
Connection types											
Cable ⁸⁾ sender VS 12-2	PVC, 2 m, 2 x 0.14 mm ² , Ø 3.75 mm										
Cable ⁸⁾ receiver VE 12-2	PVC, 2 m, 4 x 0.14 mm ² , Ø 3.75 mm										
Plug	M12, 4-pin										
VDE protection class⁹⁾	□										
Circuit protection¹⁰⁾	A, B, C, D										
Enclosure rating	IP 67										
Ambient temperature T_A	Operation - 25 °C ... + 70 °C										
	Storage - 25 °C ... + 70 °C										
Weight	With cable VS and VE each approx. 54 g										
	With plug VS and VE each approx. 18 g										
Housing material	Housing: Nickel-coated brass/PA										
	Optics: PC										

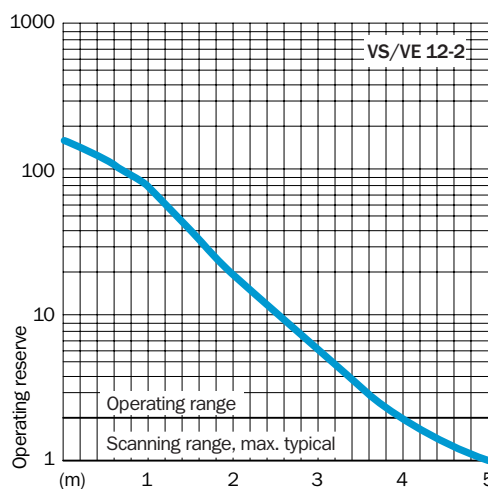
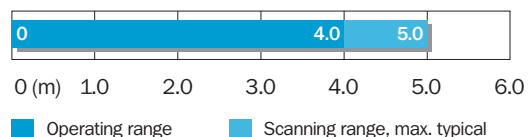
1) Average service life 100,000 h at T_A = + 25 °C
 2) Limit values
 3) May not exceed or fall short of V_S tolerances
 4) Without load

5) L/D switching type control line
 L/D = open (not assigned) dark-switching D.ON
 L/D = + V_S: light-switching L.ON
 L/D = 0 V: dark-switching D.ON

6) Signal transit time with resistive load
 7) With light/dark ratio 1:1
 8) Do not bend below 0 °C
 9) Reference voltage 50 V DC

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

Scanning range and operating reserve



Order information

Type ¹¹⁾	Order no. ¹¹⁾
VS/VE 12-2P 132	6 026 223
VS/VE 12-2P 430	6 026 224
VS/VE 12-2N 132	6 026 221
VS/VE 12-2N 430	6 026 222

11) The order no. contains transmitter and receiver (= pair).