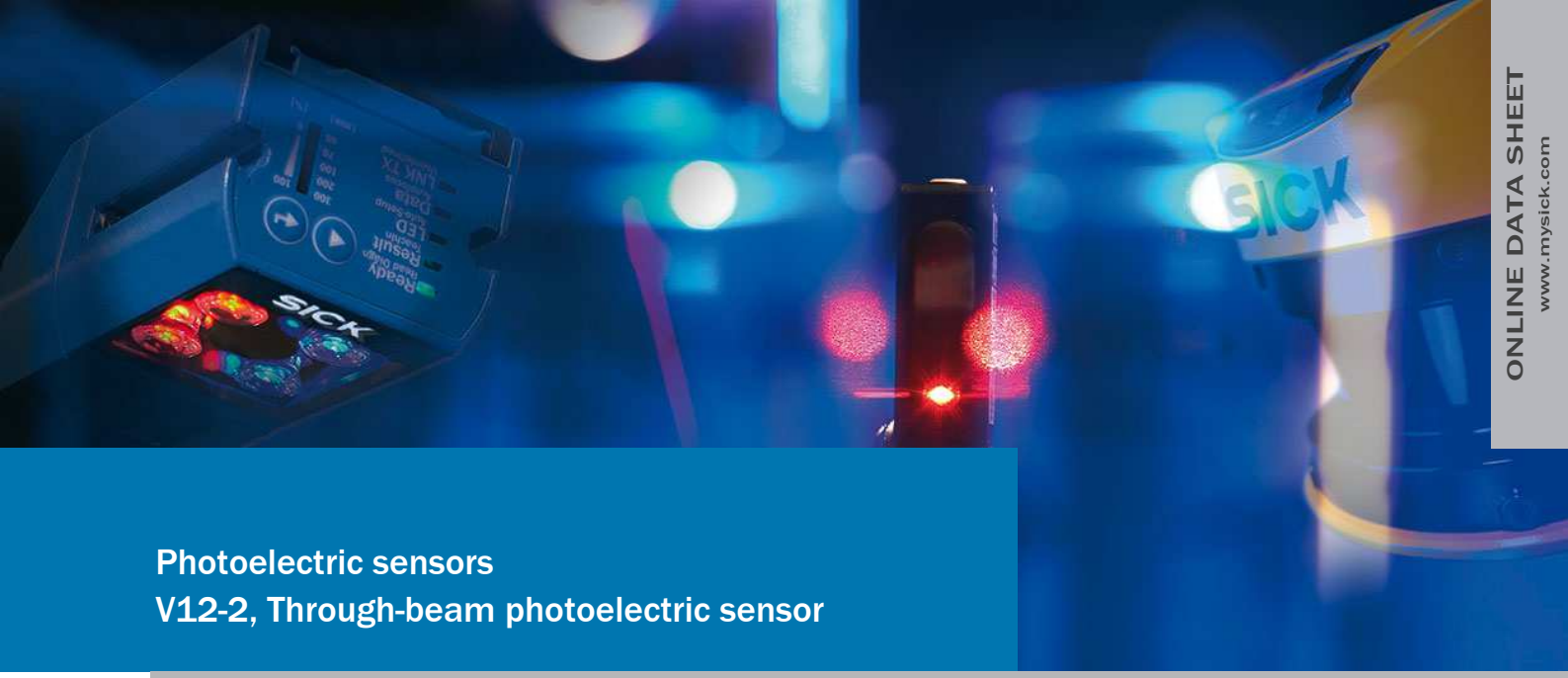


ONLINE DATA SHEET
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Photoelectric sensors
V12-2, Through-beam photoelectric sensor

VS/VE12-2P430



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Photoelectric sensors
V12-2, Through-beam photoelectric sensor

Model Name > VS/VE12-2P430
Part No. > 6026224



Illustration may differ

At a glance

- Sensing distance up to 5.0 m
- M12 metal housing with an IP 67 enclosure rating
- Long sensing distances, short response times
- 2 teach-in modes: Standard teach mode for basic applications, precise teach mode with small hysteresis for special applications
- Adjustable light or dark switching as complementary outputs
- PNP or NPN output available

Your benefits

- The combination of a sender and receiver enables precise switching and positioning
- Reliable product detection over a long sensing distance up to 5 m improves machine performance
- Space-saving mounting due to M12 miniature housing with cable or M12 device connector
- IP 67-rated metal housing offers a long service life that withstands harsh environments, reducing maintenance time and costs

Features

Sensor/detection principle:	Through-beam photoelectric sensor
Housing design (light emission):	Cylindrical, straight
Housing length:	66.3 mm
Thread diameter (housing):	Round connector M12 x 1
Sensing range max.:	0 m ... 5 m
Sensing range:	0 m ... 4 m
Type of light:	Infrared light
Light source:	LED [1)]
Wave length:	880 nm
Angle of dispersion:	Ca. 1.4 °
Light spot size (distance):	Ø 100 mm (4 m)

[1)] Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

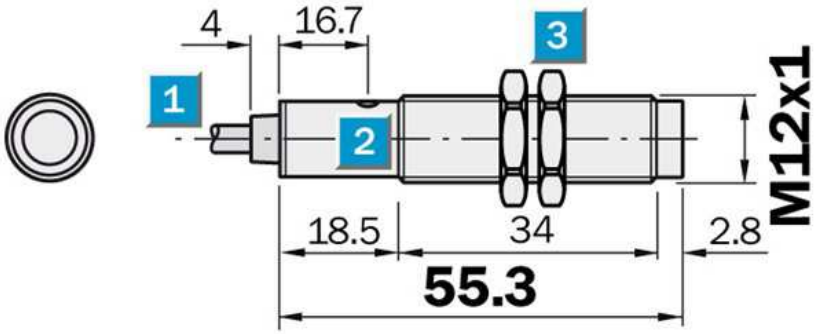
Supply voltage:	10 V DC ... 30 [1)]
Residual ripple:	≤ 10 % [2)]
Power consumption:	20 [3)]

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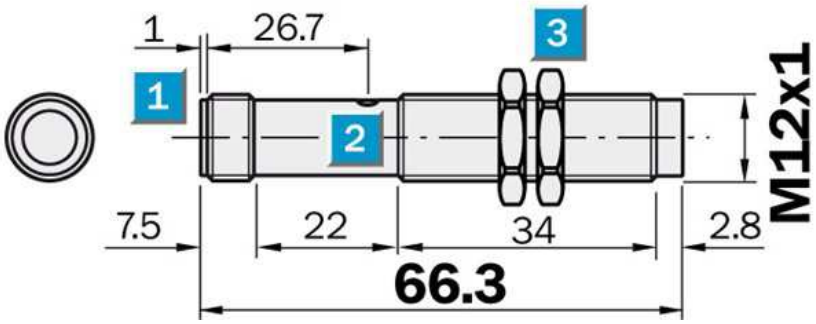
Output type:	PNP
Switching mode:	Light/dark switching
Switching mode selector:	Selectable via L/D control wire
Output current Imax.:	100 [4]
Response time:	≤ 2 ms [5]
Switching frequency:	250 [6]
Electrical connection:	Connector M12, 4-pin
Circuit protection::::	A, B, C, D [7] [8] [9] [10]
Protection class:	III
Weight:	36 g
Housing material:	Nickel-plated brass/PA, Metal
Optics material:	PMMA
Enclosure rating:	IP 67
Ambient temperature operation:	-25 ... 70 °C
Ambient storage temperature:	-25 ... 70 °C

[1] Limit values [2] May not exceed or fall short of V_S tolerances [3] [4] Without load [5] Signal transit time with resistive load [6] With light/dark ratio 1:1 [7] A = V_S connections reverse-polarity protected [8] B = inputs and output reverse-polarity protected [9] C = interference suppression [10] D = outputs overcurrent and short-circuit protected

Dimensional drawing

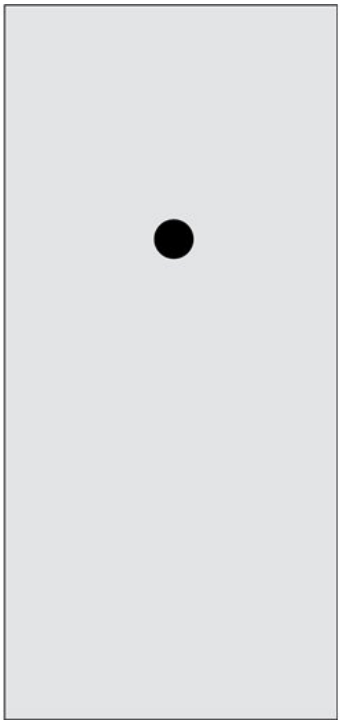


|1| Cable or connector M12, 4-pin
|2| Yellow LED indicator
(continuously)Sender VS 12-2- power on, sen
der active receiver VE 12-2- light reception> switching th
|3| fastening nuts (2 x); width across 17, metal

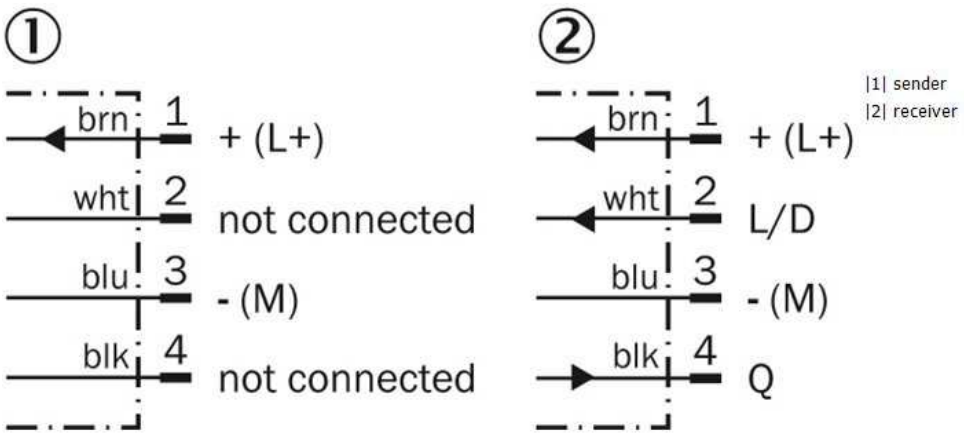


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Adjustments possible

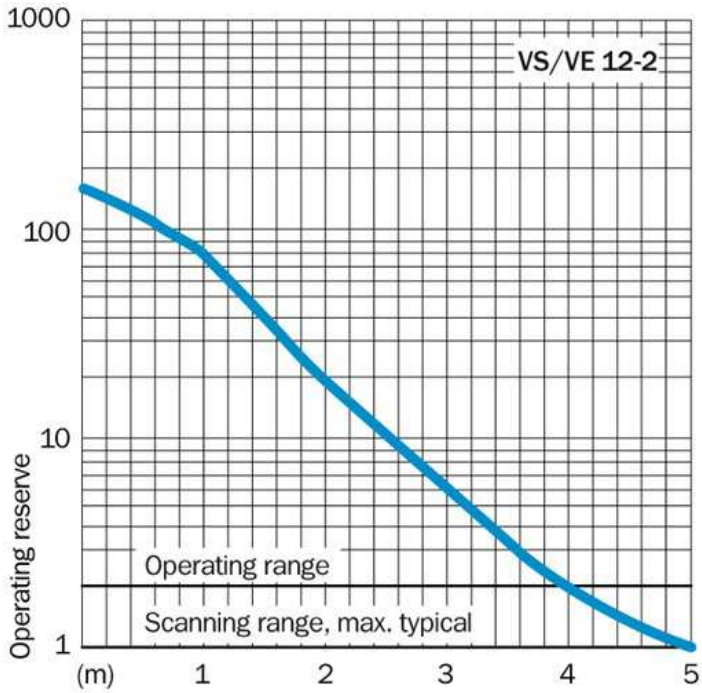


Connection diagram

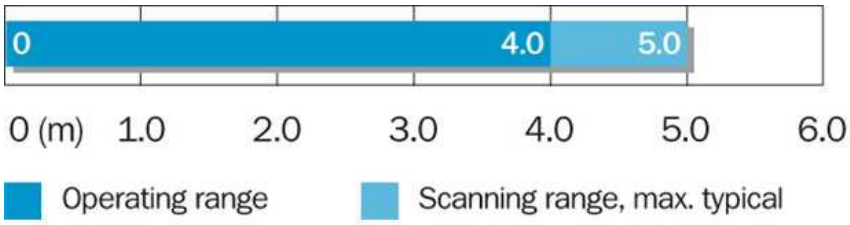


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Characteristic curve



Sensing range diagram



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Connection type



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