



Photoelectric sensors
V180, Through-beam photoelectric sensor

VS180-D132S01

Model Name > [VS180-D132S01](#)
Part No. > [6035022](#)



At a glance

- Sensing distance up to 15 m
- Compact M18 metal housing
- M12 cable or 2 m cable
- Light/dark switching via control cable
- 90° deflector head accessory

Your benefits

- Compact M18 housing saves space on the machine
- Compatible with many competitor models, making it easy to install and commission
- Clearly visible LED indicators reduce setup time and simplify troubleshooting

The product has been discontinued. Please follow the "replacement product" link for information about alternative products.



Features

Sensor/detection principle:	Through-beam photoelectric sensor
Housing design (light emission):	Cylindrical, straight
Housing length:	70 mm
Thread diameter (housing):	M18 x 1
Optical axis:	axial
Sensing range max.:	0 m ... 25 m
Sensing range:	0 m ... 20 m
Type of light:	Infrared light
Light source:	LED ¹⁾
Wave length:	870 nm
Light spot size (distance):	330 mm (20 m)

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

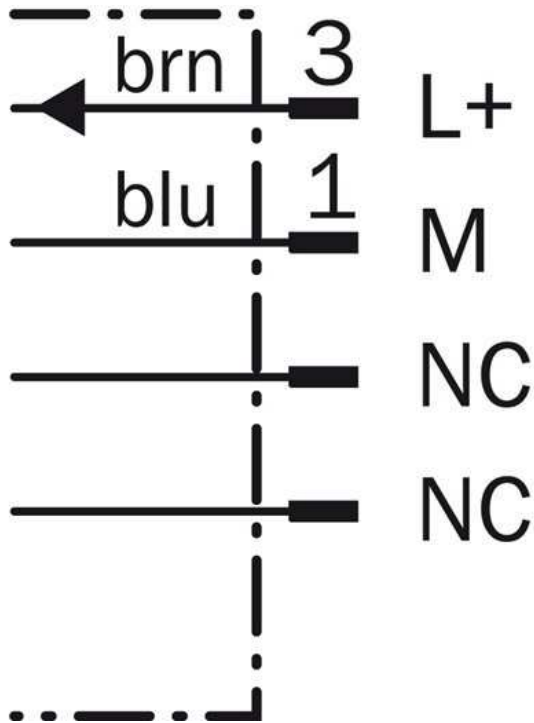
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Residual ripple:	$\pm 5\text{ Vpp}$
Power consumption:	25 ²⁾
Switching frequency:	333 Hz ³⁾

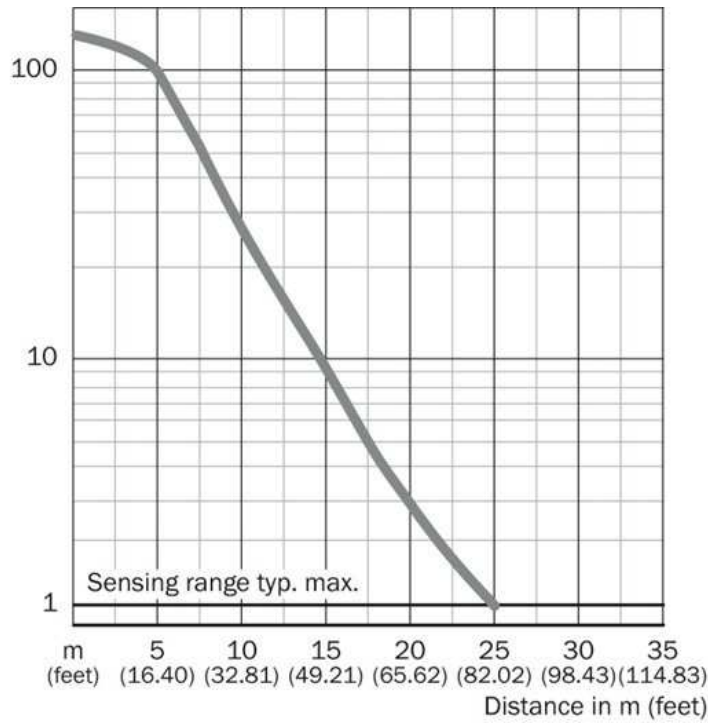
Electrical connection:	Cable with connector MOLEX MINI-FIT, 2-pin, 0.34 m
Cable material:	PVC
Conductor cross-section:	0.2 mm ²
Cable diameter:	3.8 mm
Circuit protection:::	A, C, D ^{4) 5) 6)}
Protection class:	III
Weight:	120 g
Special device:	✓
Housing material:	Nickel-plated brass, PBT/PC, Metal
Optics material:	PMMA
Enclosure rating:	IP 66
Items supplied:	Fastening nuts (2 x)
Ambient temperature operation:	-25 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C

1) Limit values 2) Without load 3) With light/dark ratio 1:1 4) A = V_S connections reverse-polarity protected 5) C = interference suppression 6) D = outputs overcurrent and short-circuit protected

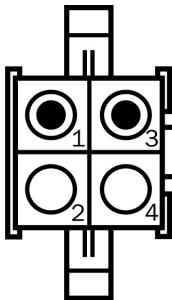
Connection diagram



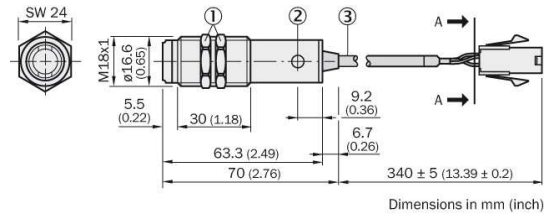
Characteristic curve



Connection type

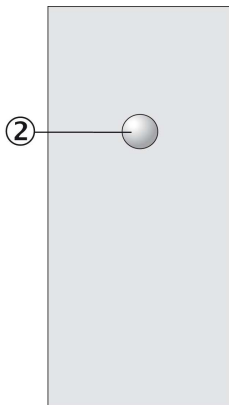


Dimensional drawing



VIEW ON A-A

Adjustments possible



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