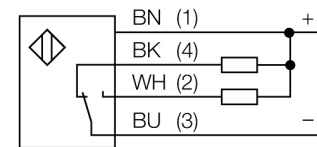


**Photoelectric sensor  
diffuse mode sensor  
S18-2VNDL-Q8**



- Male M12 x 1, 5-pin
- Protection class IP67
- Ambient temperature: -40...+70 ° C
- Selectable light/dark operation or light operation with alarm function
- Operating voltage: 10...30 VDC
- NPN switching output, changeover

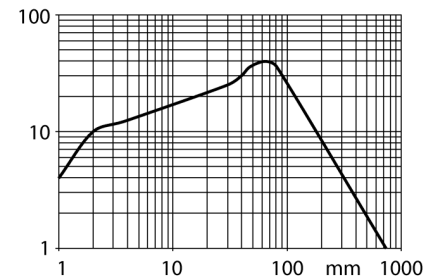
**Wiring diagram**



**Functional principle**

Emitter and receiver are incorporated in the same housing. The light reflected by the target is detected and causes the sensor to switch. The switching distance thereby depends largely on the reflectivity of the target.

**Excess gain curve**



<b>Type code</b>	S18-2VNDL-Q8
Ident no.	3042162
<b>Operating mode</b>	diffuse mode sensor
Light type	red
Wavelength	624 nm
Range	1...750 mm
Ambient temperature	-40...+70 °C
<b>Operating voltage</b>	10...30VDC
Residual ripple	< 10 % U <sub>s</sub>
No-load current I <sub>0</sub>	≤ 16 mA
Short-circuit protection	yes/ cyclic
Reverse polarity protection	yes
Output function	changover contact, NPN
Readiness delay	≤ 100 ms
Response time	< 2.25 ms
<b>Design</b>	cylindrical/threaded, S18
Dimensions	73 mm
Housing diameter	18 mm
Housing material	plastic, ABS
Connection	male, M12 x 1
Cable cross section	4 mm <sup>2</sup>
Protection class	IP67
<b>Power-on indication</b>	LED green
Switching state	LED yellow

