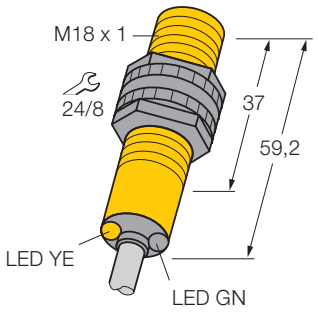
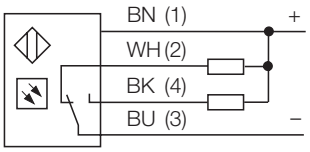
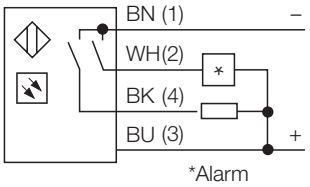
Photoelectric sensor
diffuse mode sensor
S18SN6D



- **selectable light or dark operation or light operation with alarm function**
- **cable, 2 m**
- **operational voltage 10..0.30 VDC**
- **degree of protection IP69K**

Wiring diagram



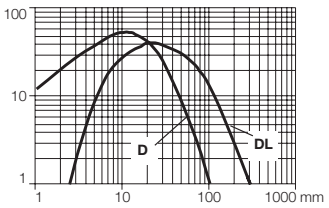


Type	S18SN6D
Ident-No.	3845500
Operating mode	Diffuse mode sensor
Type of light	IR
Wave length	880 nm
Sensing range [mm]	0... 100 mm
Operating temperature	-40 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Rated operational current (DC) I_e	≤ 150 mA
No-load current I_0	≤ 25 mA
Short-circuit protection	yes, cyclic
Reverse polarity protection	yes
Output function	connection programmable, NPN
Switching frequency	≤ 160 Hz
Max. switch-on delay	≤ 100 ms
Overload trip point	>220 mA
Housing style	cylindrical/thread; S18
Dimensions	59,2 mm
Housing material	plastic, PBT
Lens	Plastic, Acryl
Wiring	cable
Cable length	2 m
Cable cross section	4 x 0,5 mm^2
Degree of protection	IP68 - IP69K
Supply voltage indication	LED green
Switching status indication	LED yellow
Error indication	LED green flashing
Alarm indication	LED yellow flashing

The emitter and receiver are incorporated in a single housing. The light reflection of the target is detected and triggers the sensor to switch. Thus the switching distance depends largely on the reflectivity of the target.

Excess gain curve

Excess gain in relation to the distance



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