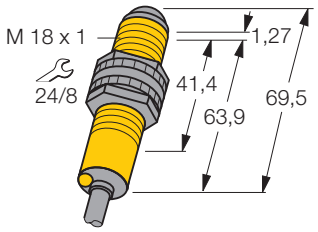
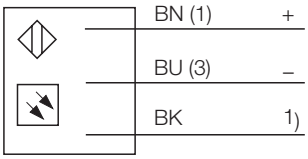
Photoelectric sensor
laser emitter
S186ELD



- **laser emitter**
- **housing style M18 x 1**
- **cable, 2 m**
- **cable, 2 m**
- **sensing range up to 60 m**

Wiring diagram

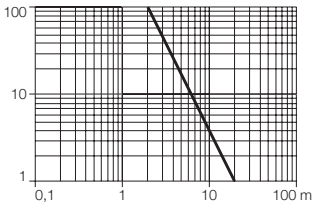


Type	S186ELD
Ident-No.	3849800
Operating mode	Opposed mode (emitter)
Type of light	red
Wave length	670 nm
Laser-class	2 (EN 60825, IEC 60825)
Beam-diameter	2,5 (elliptisch) mm
Max. sensing range [m]	0... 20 m
Operating temperature	-10 ...+ 50 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Rated operational current (DC) I_e	≤ 150 mA
No-load current I_0	≤ 35 mA
Short-circuit protection	yes, cyclic
Reverse polarity protection	yes
Housing style	cylindrical/thread; S18
Dimensions	69,5 mm
Housing material	plastic, PBT
Lens	Plastic, Acryl
Wiring	cable
Cable length	2 m
Cable cross section	3 x 0,34 mm^2
Degree of protection	IP68 - IP69K
Supply voltage indication	LED green

Opposed mode sensors consist of a separate emitter and receiver. These are installed directly opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions.

Excess gain curve

Excess gain in relation to the distance



Hans Turck GmbH & Co.KG • Postfach • D-45466 Mülheim an der Ruhr • Telefon 02 08/49 52-0 • Telefax 02 08/49 52-264