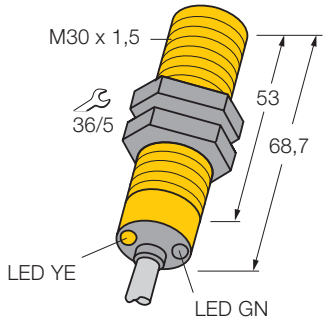
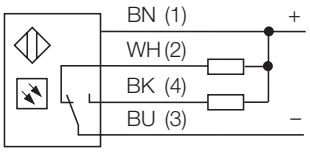
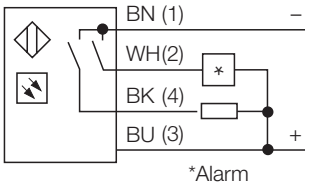
Photoelectric sensor receiver S30SN6R



- **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



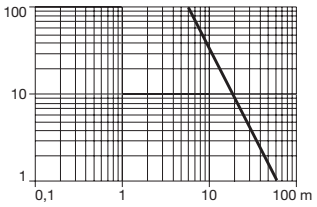


Type	S30SN6R
Ident-No.	3459800
Operating mode	Opposed mode (receiver)
Max. sensing range [m]	0... 60 m
Operating temperature	-40 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Rated operational current (DC) I_e	≤ 150 mA
No-load current I_0	≤ 25 mA
Short-circuit protection	yes, cyclic
Reverse 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; S30
Dimensions	68,7 mm
Housing material	plastic, PBT
Lens	Plastic, Lexan
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

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



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