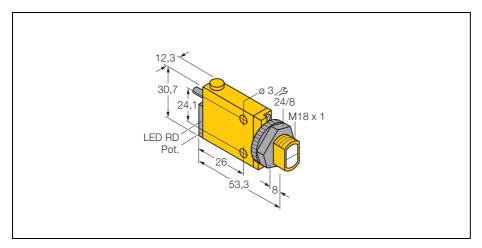


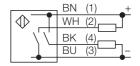
Photoelectric sensor receiver SM31R



SM31R
3802200
Opposed mode (receiver)
-20+ 70 °C
10 30 VDC
≤150 mA
≤25 mA
yes, cyclic
yes
normally open, PNP/NPN
≤500 Hz
≤100 ms
>220 mA
rectangular; Mini Beam
53,3 x 12,3 x 30,7 mm
plastic, PBT
Kunststoff, Acryl
cable
2 m
$4 \times 0,5 \text{ mm}^2$
IP67
LED red
LED red flashing

- compact housing style
- Reverse polarity and short-circuit protection
- cable, 2 m
- light/dark operate
- sensitivity adjustable via potentiometer
- alignment indication

Wiring diagram



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

