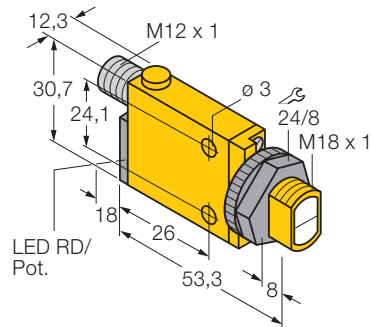
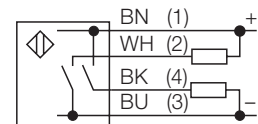


## Photoelectric sensor retro-reflective sensor ROPL3m-Mi-UNP6X-H1141



- compact housing style
- Reverse polarity and short-circuit protection
- connector M12 x 1
- light/dark operate
- sensitivity adjustable via potentiometer
- alignment indication

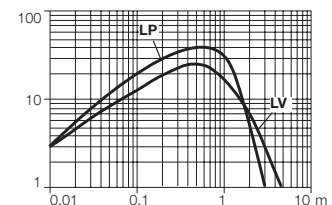
### Wiring diagram



With retro-reflective sensors, emitter and receiver are incorporated in one compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors incorporate some of the advantages of opposed mode sensors (good contrast and high excess gain). Further it is merely required to install and wire a single device. The smaller sensing range and susceptibility to interference through shiny objects when using devices without polarisation filter can be disadvantageous in some applications.

### Excess gain curve

Excess gain in relation to the distance



<b>Type</b>	ROPL3m-Mi-UNP6X-H1141
Ident-No.	3050711
<b>Operating mode</b>	Retro-reflective sensor with polarising filter
Type of light	red
Wave length	650 nm
Max. sensing range [m]	0... 3 m
Operating temperature	-20 ...+ 70 °C
<b>Rated operational voltage (DC) U<sub>B</sub></b>	10... 30 VDC
Rated operational current (DC) I <sub>e</sub>	≤ 150 mA
No-load current I <sub>0</sub>	≤ 25 mA
Short-circuit protection	yes, cyclic
Reverse polarity protection	yes
Output function	normally open, PNP/NPN
Switching frequency	≤ 500 Hz
Max. switch-on delay	≤ 100 ms
Overload trip point	>220 mA
<b>Housing style</b>	rectangular; Mini Beam
Dimensions	71,3 x 12,3 x 30,7 mm
Housing material	plastic, PBT
Lens	Kunststoff, Acryl
Wiring	connector, M12 x 1
Degree of protection	IP67
<b>Switching status indication</b>	LED red
Excess gain indication	LED red flashing