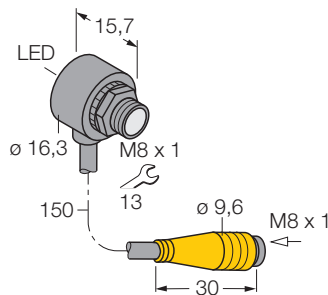
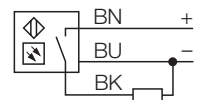


Photoelectric sensor opposed mode sensor (receiver) T8RP6RQ



- pnp switching output
- dark operate
- M8 x 1 connector
- dark operate

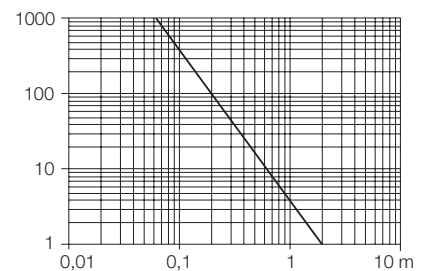
Wiring diagram



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 extremely 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



Type	T8RP6RQ
Ident-No.	3066670
Operating mode	Opposed mode (receiver)
Operating temperature	-20 ...+ 55 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Rated operational current (DC) I_e	≤ 50 mA
No-load current I_0	≤ 25 mA
Short-circuit protection	yes, cyclic
Reverse polarity protection	yes
Output function	normally open, PNP
Switching frequency	≤ 666 Hz
Max. switch-on delay	≤ 100 ms
Housing style	threaded barrel; T8
Dimensions	15,8 mm
Housing material	plastic, ABS
Lens	Kunststoff, Acryl
Wiring	pigtail, M8 x 1
Cable cross section	3 x 0,1 mm ²
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED red
Error indication	LED green blinkend
Alarm indication	LED red blinkend