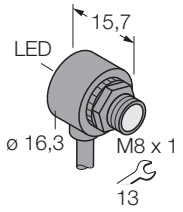
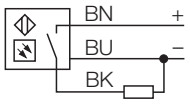
Photoelectric sensor
diffuse mode sensor
T8RP6D100



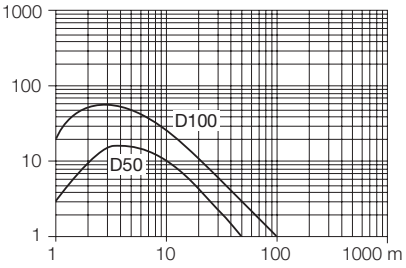
- **pnp switching output**
- **dark operate**
- **cable, 2 m**
- **dark operate**

Wiring diagram



Just like with retro-reflective sensors, opposed mode sensors incorporate the emitter and receiver circuitry in a single housing. However, diffuse mode sensors do not detect the interruption of the light beam but the reflection of the target. A target is detected if it reflects a sufficient amount of light back to the receiver. The switching distance of diffuse mode sensors thus largely depends on the reflectivity of the target. This type of sensor is especially suited for detection of transparent objects (diffuse mode sensor with or without background suppression or convergent mode sensors).

Excess gain curve
Excess gain in relation to the distance



Type	T8RP6D100
Ident-No.	3068690
Operating mode	Diffuse mode sensor
Type of light	red
Wave length	680 nm
Sensing range [mm]	0... 100 mm
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	≤ 500 Hz
Max. switch-on delay	≤ 150 ms
Housing style	threaded barrel; T8
Dimensions	15,8 mm
Housing material	plastic, ABS
Lens	Kunststoff, Acryl
Wiring	cable
Cable length	2 m
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

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