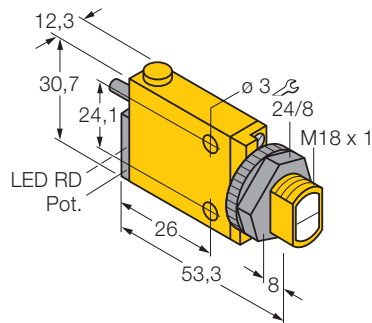
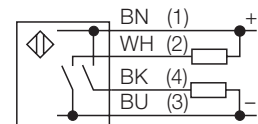


## Photoelectric sensor diffuse mode sensor NO 30-MI-UNP6X



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

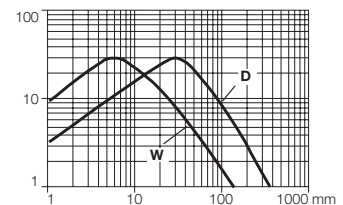
### Wiring diagram



Diffuse mode sensors incorporate the emitter and receiver in a single housing. However, diffuse mode sensors do not detect the interruption of the light beam like opposed mode sensors, 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.

### Excess gain curve

Excess gain in relation to the distance



|                                                        |                         |
|--------------------------------------------------------|-------------------------|
| <b>Type</b>                                            | NO 30-MI-UNP6X          |
| Ident-No.                                              | 37002                   |
| <b>Operating mode</b>                                  | Diffuse mode sensor     |
| Type of light                                          | IR                      |
| Wave length                                            | 880 nm                  |
| Sensing range [mm]                                     | 0... 380 mm             |
| Operating temperature                                  | -20 ...+ 70 °C          |
| <b>Rated operational voltage (DC) <math>U_B</math></b> | 10... 30 VDC            |
| Rated operational current (DC) $I_B$                   | ≤ 150 mA                |
| No-load current $I_0$                                  | ≤ 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                                             | 53,3 x 12,3 x 30,7 mm   |
| Housing material                                       | plastic, PBT            |
| Lens                                                   | Kunststoff, Acryl       |
| Wiring                                                 | cable                   |
| Cable length                                           | 2 m                     |
| Cable cross section                                    | 4 x 0,5 mm <sup>2</sup> |
| Degree of protection                                   | IP67                    |
| <b>Switching status indication</b>                     | LED red                 |
| Excess gain indication                                 | LED red flashing        |