



Photoelectric sensors Z2, Photoelectric proximity sensor, energetic

ZT2-N4228



Model Name > [ZT2-N4228](#)
Part No. > [1045476](#)



Illustration may differ

At a glance

- Sensing distances of 50 mm, 60 mm, 100 mm or 155 mm, which are non-adjustable
- Infrared LED emitter
- Compact, transparent housing with 360° status indication
- M18 front mount and 24-25.4 mm slotted side through holes compatible with competitor devices
- Connection system: angled cable outlet (60°) or M12 or M8 plug connector

Your benefits

- Low-cost proximity sensor for standard applications with small sensing distances
- Suitable for applications where the light spot needs to be invisible
- Clear housing provides 360° status indication for simple troubleshooting
- Simple and unique mounting options lower installation costs
- Compatibility with competitor products for easy integration into existing systems



Features

Sensor/detection principle:	Photoelectric proximity sensor, energetic
Dimensions (W x H x D):	13.6 mm x 45.2 mm x 31.7 mm
Housing design (light emission):	Hybrid
Thread diameter (housing):	M18 x 1
Sensing range max.:	1 mm ... 100 mm ¹⁾
Sensing range:	1 mm ... 100 mm
Type of light:	Infrared light
Light source:	LED ²⁾
Wave length:	880 nm
Light spot size (distance):	20 mm (100 mm)

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Power consumption:	< 20 mA ²⁾
Output type:	NPN
Switching mode:	Light switching
Output current I _{max} :	50 mA
Switching frequency:	200 Hz ³⁾

Connection type:	Connector M12, 4-pin
Circuit protection::	A, D ^{4) 5)}
Protection class:	III ⁶⁾
Housing material:	Glass fiber reinforced ABS plastic, Plastic
Enclosure rating:	IP 67
Items supplied:	Mounting nut M18
Ambient operating temperature:	-25 °C ... 50 °C
Ambient storage temperature:	-40 °C ... 70 °C

1) Limit values 2) Without load 3) With light/dark ratio 1:1 4) $A = V_S$ connections reverse-polarity protected 5) D = outputs overcurrent and short-circuit protected 6)

Reference voltage 50 V DC

Dimensional drawing

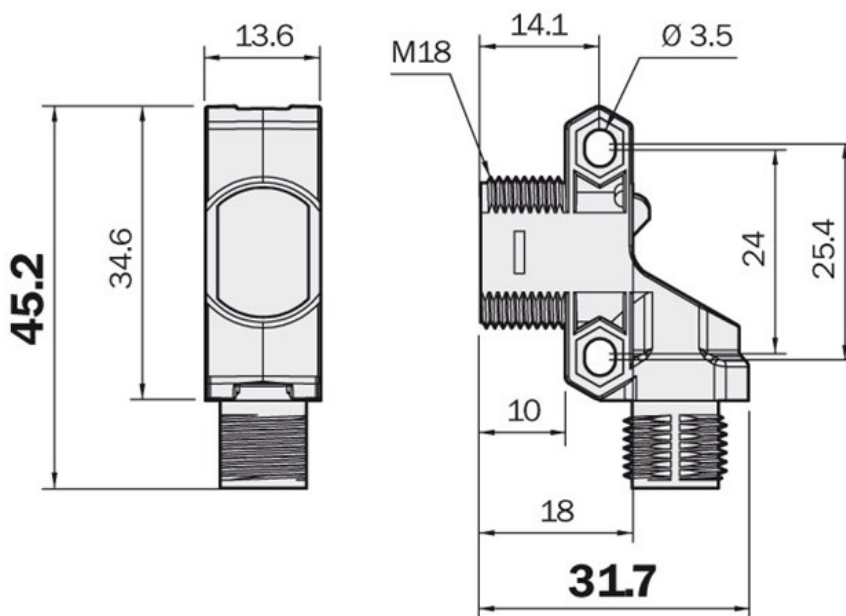


Diagram of a 4-bit bus system with four lines:

- Line 1: **brn** (brown), labeled **1**, associated with **+ (L+)**
- Line 2: **wht** (white), labeled **2**, associated with **not connected**
- Line 3: **blu** (blue), labeled **3**, associated with **- (M)**
- Line 4: **blk** (black), labeled **4**, associated with **Q**

Sensor Type	Sensing range (mm)	Sensing range typ. max. (mm)
①	100	100
②	82	82
③	74	74

Distance in mm (inch)

■ Sensing range ■ Sensing range typ. max.

- ① Sensing range on white, 90 % remission
- ② Sensing range on gray, 18 % remission
- ③ Sensing range on black, 6 % remission

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