



## Fotoprzełączniki Z1, Fotoprzełącznik odbiciowy, Tłumienie tła

ZT1-N3215



Nazwa modelu > **ZT1-N3215**

Numer części > **1045562**



Produkt może różnić się od ilustracji

#### 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

#### Your benefits

- Low-cost 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, which simplifies troubleshooting
- Simple and unique mounting options lower installation costs
- Small size fits applications with limited space
- Compatibility with competitor products for easy integration into existing systems



#### Cechy

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik odbiciowy, Tłumienie tła |
| Wymiary (Szer. x Wys. x Głęb.):            | 13,6 mm x 34,8 mm x 23 mm                |
| Housing design (light emission):           | Hybrid                                   |
| Thread diameter (housing):                 | M18 x 1                                  |
| Maks. strefa działania:                    | 0 mm ... 50 mm <sup>1)</sup>             |
| Sensing range:                             | 0 mm ... 50 mm                           |
| Rodzaj światła:                            | Światło podczerwone                      |
| Nadajnik światła:                          | LED <sup>2)</sup>                        |
| Długość fali:                              | 880 nm                                   |
| Light spot diameter (distance):            | 10,5 mm (50 mm)                          |

<sup>1)</sup> Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) <sup>2)</sup> Average service life 100,000 h at Ta = +25 °C

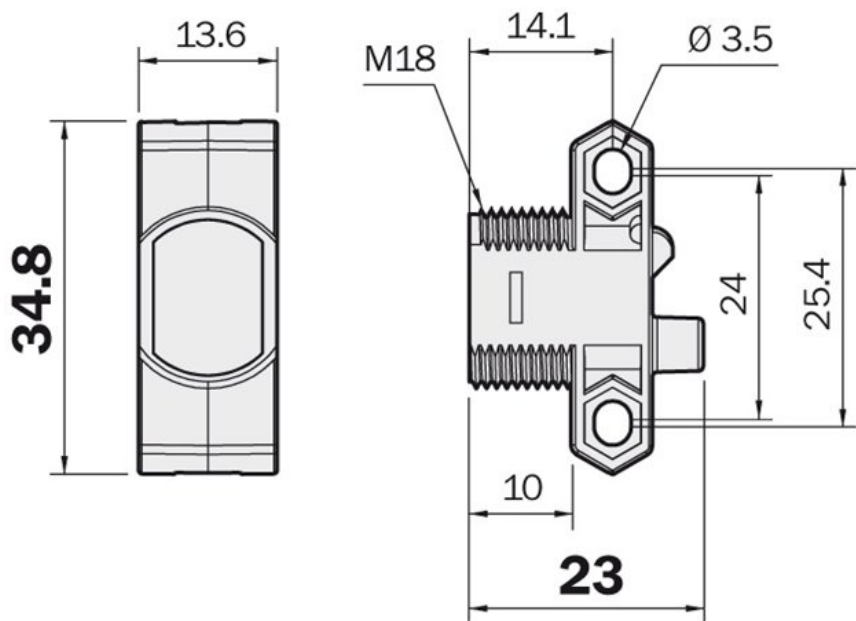
#### Mechanika/elektronika

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Napięcie zasilania:               | 10 V DC ... 30 V DC <sup>1)</sup> |
| Tętnienia resztkowe:              | < 5 Vss <sup>2)</sup>             |
| Current consumption:              | < 20 mA <sup>3)</sup>             |
| Wyjście przełączające:            | NPN, Light-switching              |
| Output current I <sub>max</sub> : | 50 mA                             |
| Switching frequency:              | 200 Hz <sup>4)</sup>              |

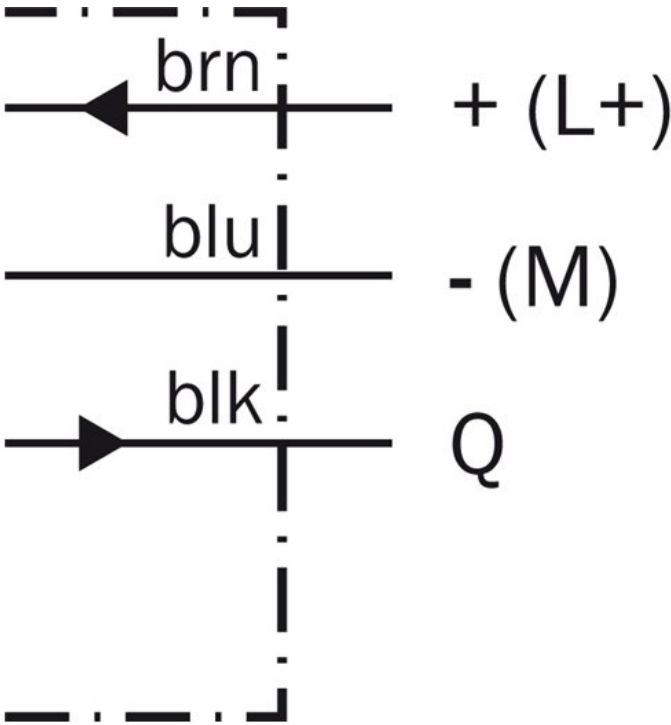
|                                |                                    |
|--------------------------------|------------------------------------|
| Sposób przyłączenia:           | Cable, 3-wire, 2 m <sup>5)</sup>   |
| Cable material:                | PVC                                |
| Przekrój przewodu:             | 0,23 mm <sup>2</sup>               |
| Układ zabezpieczenia::         | A, D <sup>6) 7)</sup>              |
| Klasa ochronności:             | III <sup>8)</sup>                  |
| Tworzywo, obudowa:             | Glass fiber reinforced ABS plastic |
| Rodzaj zabezpieczenia:         | IP 67                              |
| Dostawa:                       | Mounting nut M18                   |
| Ambient operating temperature: | -25 °C ... 50 °C                   |
| Ambient storage temperature:   | -40 °C ... 70 °C                   |

<sup>1)</sup> Limit values    <sup>2)</sup> May not exceed or fall short of  $V_S$     <sup>3)</sup> Without load    <sup>4)</sup> With light/dark ratio 1:1    <sup>5)</sup> Do not bend below 0 °C    <sup>6)</sup> A =  $V_S$  connections reverse-polarity protected    <sup>7)</sup> D = outputs overcurrent and short-circuit protected    <sup>8)</sup> Reference voltage 50 V DC

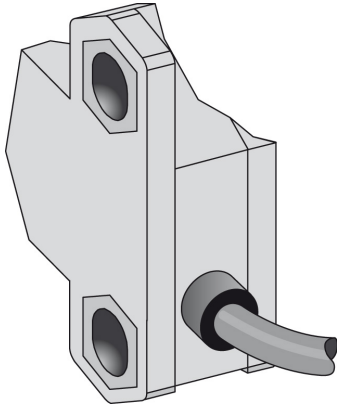
Dimensional drawing



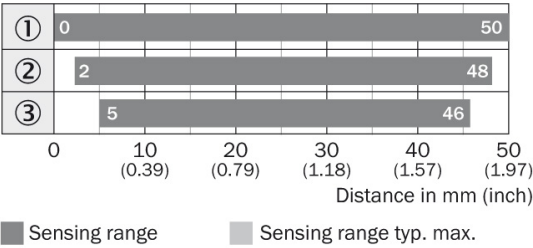
Connection diagram



Connection type



Sensing range diagram



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

**Australia**

Phone +61 3 9457 0600  
1800 334 802 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail sac@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Česká republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail info@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6801000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederland**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail sales.gsg@sick.com

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886-2-2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 8865 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 800-325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)