



Fotoprzełączniki  
W27-2 Laser, Fotoprzełącznik odbiciowy,  
Tłumienie tła

WT27L-2S830A01



Nazwa modelu > **WT27L-2S830A01**

Numer części > **1016360**



#### At a glance

- 2 mm diameter light spot at a distance of 400 mm
- Precise adjustable background suppression
- Visible red laser LED
- Sensing range adjustment via potentiometer
- UL approval

#### Your benefits

- Precise detection of very small parts up to a distance of 400 mm due to 2 mm light spot
- Highly visible red laser provides quick and easy alignment
- Durable design provides high resistance to vibration



#### Cechy

|                                            |                                                                                                |
|--------------------------------------------|------------------------------------------------------------------------------------------------|
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik odbiciowy, Tłumienie tła                                                       |
| Wymiary (Szer. x Wys. x Głęb.):            | 24,6 mm x 80 mm x 53,5 mm                                                                      |
| Housing design (light emission):           | Prostopadłościenna                                                                             |
| Maks. strefa działania:                    | 100 mm ... 800 mm <sup>1)</sup>                                                                |
| Sensing range:                             | 100 mm ... 800 mm                                                                              |
| Rodzaj światła:                            | Widzialne światło czerwone                                                                     |
| Nadajnik światła:                          | Laser <sup>2)</sup>                                                                            |
| Klasa lasera:                              | 2 (IEC 825), low power. Eyes normally protected by averting reaction and eyelid closing reflex |
| Light spot diameter (distance):            | Ø 2 mm (400 mm)                                                                                |
| Adjustment of operating distance:          | Potentiometer                                                                                  |

<sup>1)</sup> Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) <sup>2)</sup> Average service life 50,000 h at T<sub>a</sub> = +25 °C

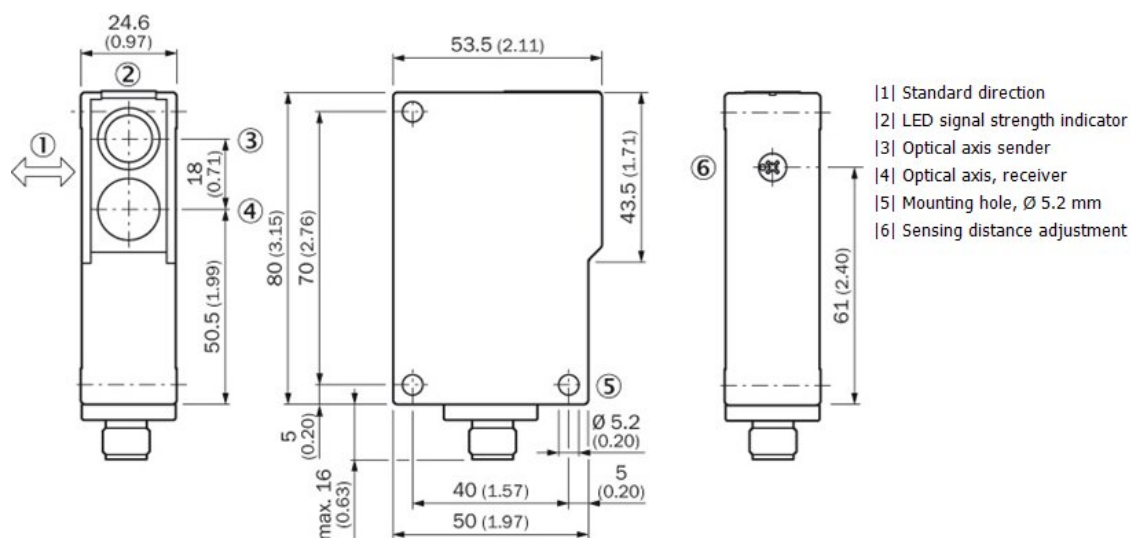
#### Mechanika/elektronika

|                        |                                          |
|------------------------|------------------------------------------|
| Napięcie zasilania:    | 24 V AC/DC ... 240 V AC/DC <sup>1)</sup> |
| Pobór mocy:            | < 2 VA                                   |
| Wyjście przełączające: | Relay                                    |
| Tryb przełączania:     | Change-over contacts                     |
| Output characteristic: | Electrically isolated                    |
| Maks. prąd łączeniowy: | 4 A (24 V DC), 4 A (240 V AC)            |
| Czas reakcji:          | < 6 ms <sup>2)</sup>                     |
| Switching frequency:   | 10 Hz <sup>3)</sup>                      |

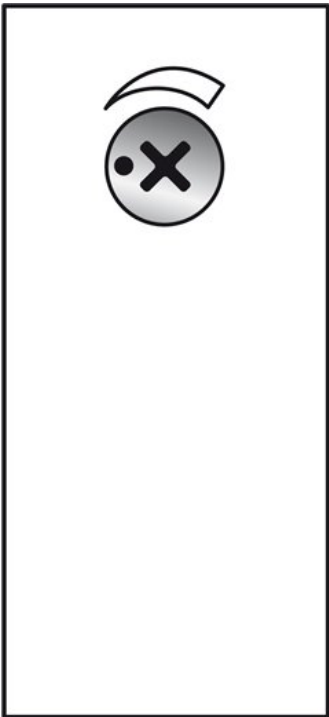
|                                |                            |
|--------------------------------|----------------------------|
| Sposób przyłączenia:           | Mini connector 7/8", 5-pin |
| Układ zabezpieczenia::         | A, C <sup>4) 5)</sup>      |
| Klasa ochrony:                 | II <sup>6)</sup>           |
| Ciężar:                        | 100 g                      |
| Special device:                | ✓                          |
| Tworzywo, obudowa:             | ABS                        |
| Rodzaj zabezpieczenia:         | IP 65                      |
| Ambient operating temperature: | -10 °C ... 45 °C           |
| Ambient storage temperature:   | -10 °C ... 75 °C           |
| UL File-No.:                   | UL No. NRKH.E147756        |

1) + 10 %, -20 %   2) Signal transit time with resistive load   3) With light/dark ratio 1:1   4) A = V<sub>S</sub> connections reverse-polarity protected   5) C = interference suppression  
6) Reference voltage 250 V AC

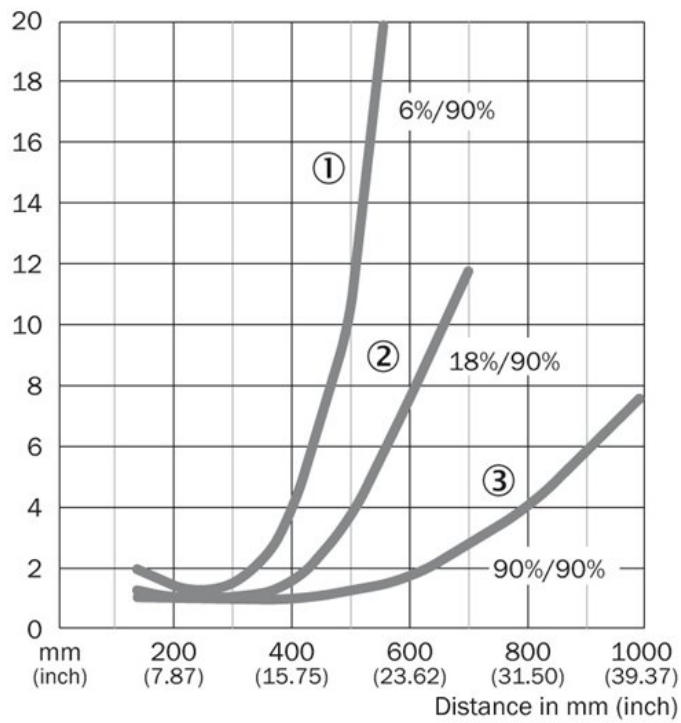
## Dimensional drawing



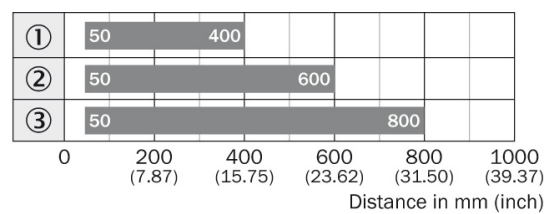
Adjustments possible



Characteristic curve



Sensing range diagram



■ Sensing range

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

**Ceská 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 kundenservice@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

**Nederlands**

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 admin@sicksgp.com.sg

**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)