

GRTE18S-N2362







Photoelectric sensors GR18S, Photoelectric proximity sensor, energetic

Model Name > GRTE18S-N2362

Part No. > 1069501



At a glance

- Low-cost cylindrical M18 sensor with extra short housing
- Five different housing styles
- · Variety of plastic and metal housing styles, with straight or right angle optics
- · Bright and highly visible PinPoint-LED
- Special flush type, one-piece metal housing
- · Highly visible signal indicator LED
- IP 67 rating

Your benefits

- · Space-saving solution due to short housing
- · Flexible mounting options due to versatile housing styles
- · Easy installation and precise detection due to PinPoint LED
- Reduced maintenance costs due to high tightening torque of single piece flush metal housing
- · Rugged and reliable with proven SICK technology
- Highly visible signal indicator LED saves maintenance and commissioning time



Illustration may differ

PinPoint Pint

Features

Sensor/detection principle: Photoelectric proximity sensor, energetic

Housing design (light emission): Cylindrical, straight

Optical axis: axial

Sensing range max.: 5 mm ... 1,000 mm ¹⁾
Sensing range: 10 mm ... 800 mm ²⁾
Type of light: Visible red light

Light source: LED 3)
Wave length: 650 nm

Adjustment: Potentiometer, 270 ° Light spot size (distance): Ø 45 mm (800 mm)

1) 2) Object with 90 % reflectance (referred to standard white, DIN 5033) $^{3)}$ Average service life of 100,000 h at T_{Δ} = +25 °C

Mechanics/electronics

Supply voltage: $10 \text{ V DC} \dots 30 \text{ V DC}^{(1)}$ Residual ripple: $\pm 5 \text{ Vpp}^{(2)}$

Residual ripple: ± 5 Vpp 2

Power consumption: ≤ 30 mA

Output type: NPN

Switching mode:

Output current Imax.:

Response time:

Switching frequency:

Light switching
100 mA
3)

< 1,000 µs
4)

500 Hz
5)

Electrical connection:

Circuit protection:::

Connector M12, 3-pin
A, B, D 6) 7) 8)

Circuit protection:::

Protection class:

Enclosure rating:

A, B,

III

IP 67

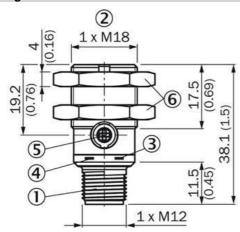
Items supplied:Fastening nuts $(2 \times x)$ Ambient operating temperature:-25 °C ... +55 °C °C ... +55 °C °C ... +70 °C

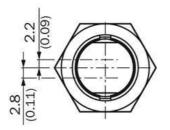
UL File No.: NRKH.E348498 & NRKH7.E348498

Housing material: Metal

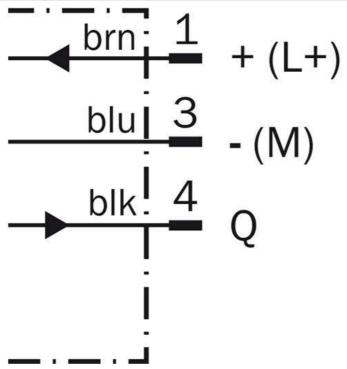
1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V_S tolerances 3) At $V_S > 24$ V or ambient temperature > 49 °C, I max = 50 mA 4) Signal transit time with resistive load 5) 6) A = V_S connections reverse-polarity protected 7) B = inputs and output reverse-polarity protected 8) D = outputs overcurrent and short-circuit protected 9) At $U_V \le 24$ V and I_A

Dimensional drawing



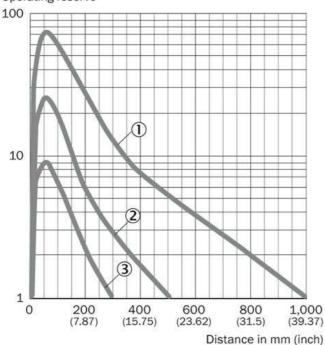


- |1| Connector M12, 3-pin
- |2| Threaded mounting hole M18 x 1
- |3| LED indicator yellow
- |4| LED indicator green
- |5| Sensitivity control; Potentiometer 270°
- |6| fastening nuts (2 x); 24 mm hex, metal



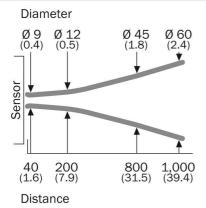
Characteristic curve

Operating reserve

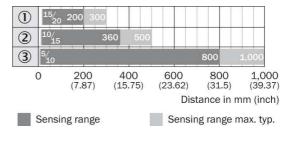


- |1| Sensing range on black, 6 % remission
- |2| Sensing range on gray, 20 % remission
- |3| Sensing range on white, 90 % remission

Light spot size



Sensing range diagram



Australia

Phone +61 3 9457 0600 1800 33 48 02 - 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 marketing@sick.com.br

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

Danmark

Phone +45 45 82 64 00

E-Mail ghk@sick.com.hk

E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301

E-Mail info@sick.de

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

Phone +91-22-4033 8333

E-Mail info@sick-india.com

Israel

Phone +972-4-6881000

E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41

E-Mail info@sick.it

Phone +81 (0)3 5309 2112

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 sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0

E-Mail office@sick.at

Phone +48 22 837 40 50

E-Mail info@sick.pl

România

Phone +40 356 171 120

E-Mail office@sick.ro

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

Phone +358-9-25 15 800

E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00

E-Mail info@sick.se

Phone +886 2 2375-6288

E-Mail sales@sick.com.tw

Phone +90 (216) 528 50 00

E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 88 65 878

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

