



Fotoprzełączniki GR18S, Fotoprzełącznik odbiciowy, energetyczny

GRTE18S-P2342



Nazwa modelu > **GRTE18S-P2342**

Numer części > **1058200**



Produkt może różnić się od ilustracji

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



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, energetyczny
Housing design (light emission):	Cylindrical, straight, straight
Oś optyczna:	Osiowa
Maks. strefa działania:	5 mm ... 550 mm ¹⁾
Sensing range:	10 mm ... 400 mm ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ³⁾
Długość fali:	650 nm
Nastawa:	Potentiometer, Potentiometer, 270°
Średnica plamki świetlnej (odległość):	Ø 9 mm (400 mm)

^{1) 2)} Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ³⁾ Average service life of 100,000 h at T_A = +25 °C

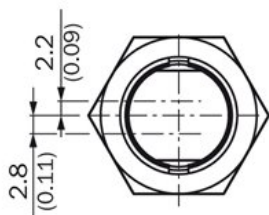
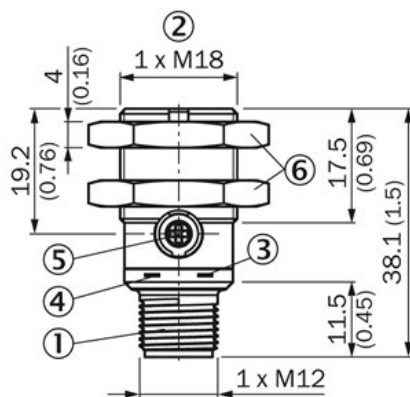
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	± 5 Vss ²⁾
Pobór prądu:	≤ 30 mA
Switching output:	PNP

Tryb przełączania:	Przełączanie na jasnym
Output current I _{max} ::	100 mA ³⁾
Czas reakcji:	< 1.000 μs ⁴⁾
Switching frequency:	500 Hz
Typ połączenia:	Connector M12, 3-pin
Układ zabezpieczenia:::	A, B, D ⁵⁾ ⁶⁾ ⁷⁾
Klasa ochronności:	III
Tworzywo, obudowa:	Metal
Rodzaj zabezpieczenia:	IP 67
Ambient operating temperature:	-25 °C ... 55 °C ⁸⁾
Ambient storage temperature:	-40 °C ... 70 °C

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_A max = 50 mA ⁴⁾ Signal transit time with resistive load ⁵⁾ A = V_S connections reverse-polarity protected ⁶⁾ B = inputs and output reverse-polarity protected ⁷⁾ D = outputs overcurrent and short-circuit protected ⁸⁾ At U_V ≤ 24V and I_A

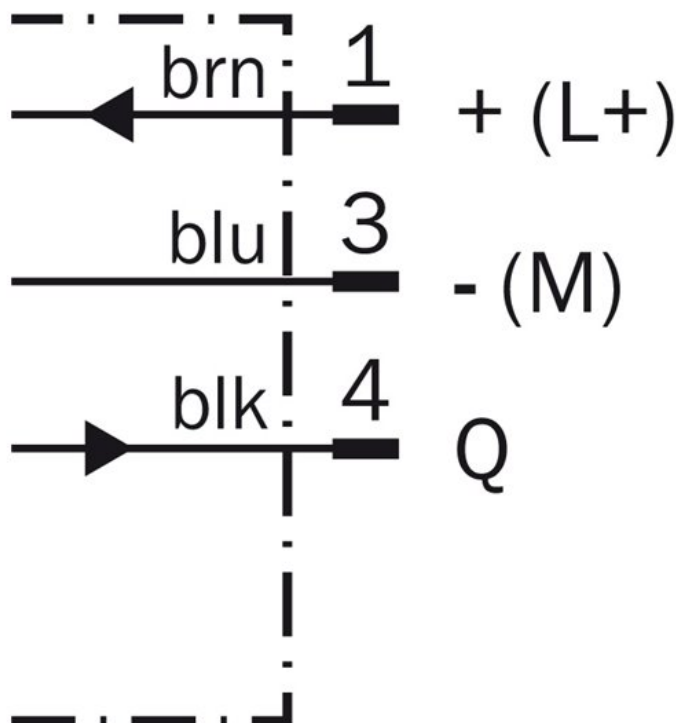
Dimensional drawing



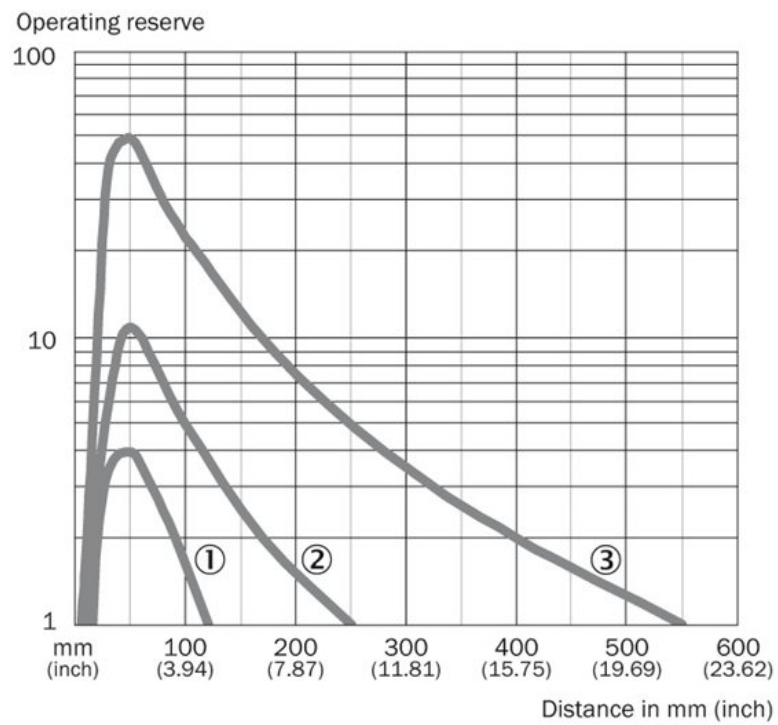
All dimensions in mm (inch)

- [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

Connection diagram

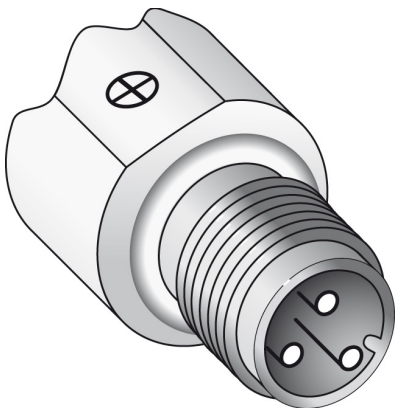


Characteristic curve

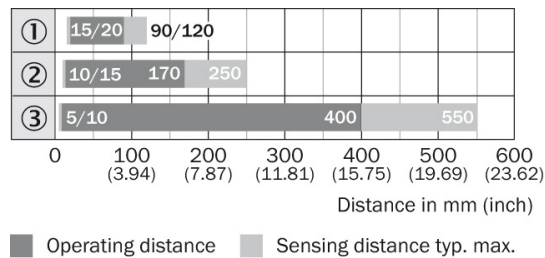


- |1| Sensing range on black, 6 % remission
- |2| Sensing range on gray, 20 % remission
- |3| Sensing range on white, 90 % remission

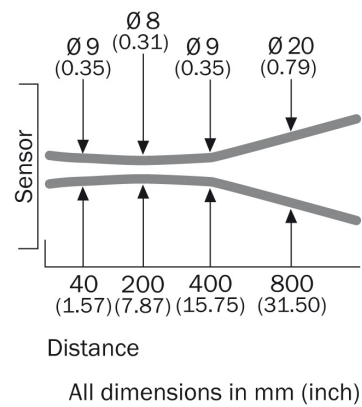
Connection type



Sensing range diagram



Light spot size



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