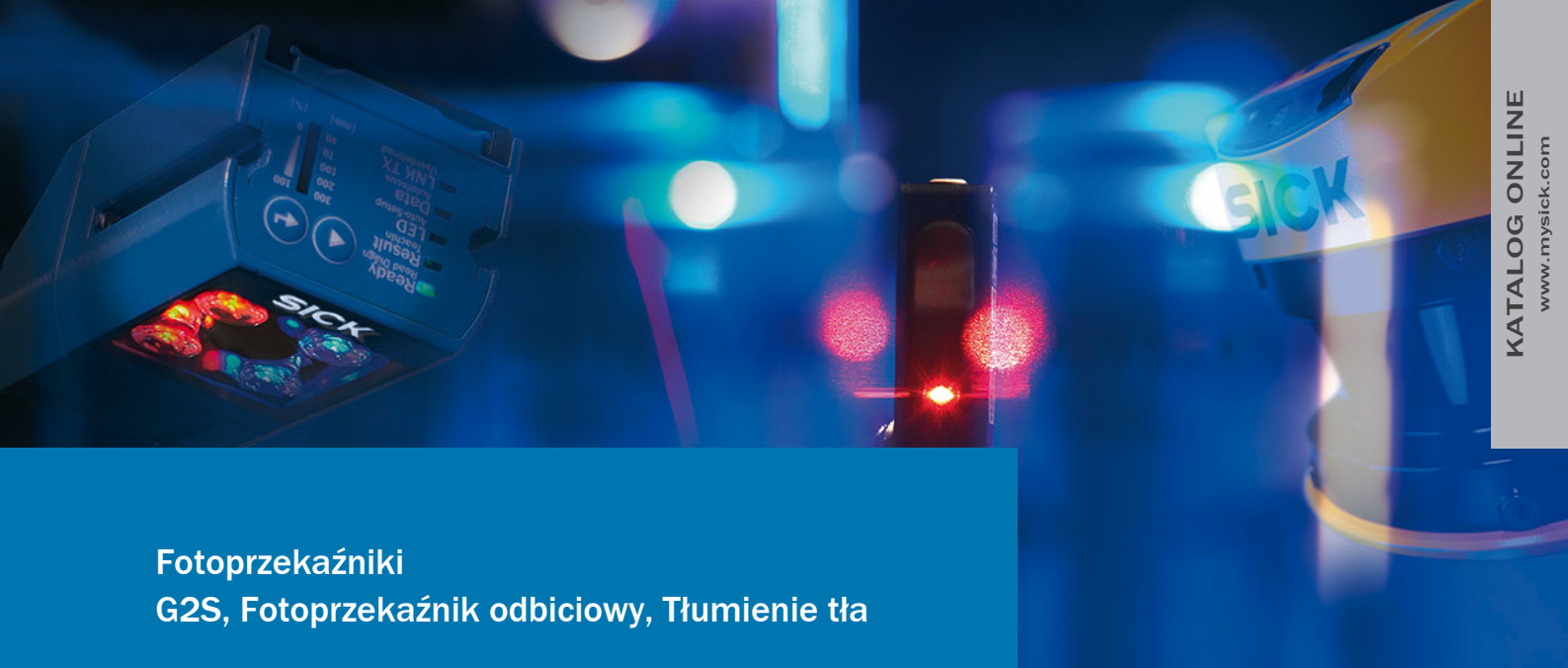




Fotoprzełączniki G2S, Fotoprzełącznik odbiciowy, Tłumienie tła

GTB2S-P5451



Nazwa modelu > **GTB2S-P5451**

Numer części > **1060204**



At a glance

- Accurate adjustment of the operating distance due to easy operation of the 3-turn potentiometer
- Reliable detection of objects of all types regardless of their reflective properties
- Minimum black/white shift, less than 10% under 80 mm

Your benefits

- Precise, repeatably accurate switching points with a small, brilliant and sharply defined light spot
- Universal use, since a minimum black/white shift allows the sensor to be used irrespective of object contours and backgrounds
- High throughput and less downtime due to the sensor's ability to suppress active and passive interference in industrial environments.
- The 45-degree tilted cable entry offers maximum installation flexibility with additional soft rubber bearings to absorb vibrations and tensile loads
- The powerful PinPoint LED permits reliable detection of jet-black and poorly reflective objects



Produkt może różnić się od ilustracji

Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	7,7 mm x 27,5 mm x 13,5 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	2 mm ... 120 mm ¹⁾
Strefa działania:	25 mm ... 90 mm ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ³⁾
Długość fali:	640 nm
Średnica plamki świetlnej (odległość):	Ø 3,5 mm (50 mm)

¹⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ²⁾ Object with 6 % remission ³⁾ Average service life of 100,000 h at T_A = +25 °C

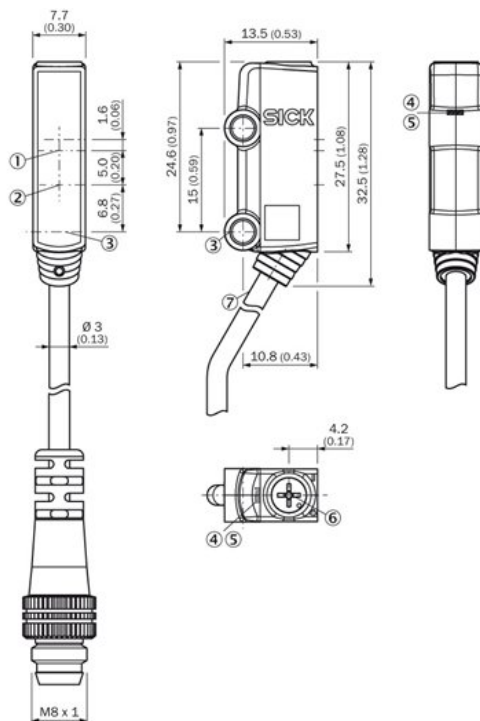
Mechanika/elektronika

Napięcie zasilania:	10 V DC... 30 V DC ¹⁾
Tętnienia resztkowe:	≤ 5 Vss ²⁾
Pobór prądu:	≤ 20 mA ³⁾
Wyjście przełączające:	PNP
Tryb przełączania:	Przełączanie na jasnym
Output current I _{max} :	< 50 mA

Czas reakcji:	< 0,6 ms ⁴⁾
Switching frequency:	800 Hz ⁵⁾
Sposób przyłączenia:	Cable with connector M8, 3-pin, 200 mm ⁶⁾
Cable diameter:	Ø 3 mm
Układ zabezpieczenia:::	A, C, D ⁷⁾ 8) 9)
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67
Ambient operating temperature:	-20 °C ... +50 °C
Ambient storage temperature:	-40 °C ... +75 °C

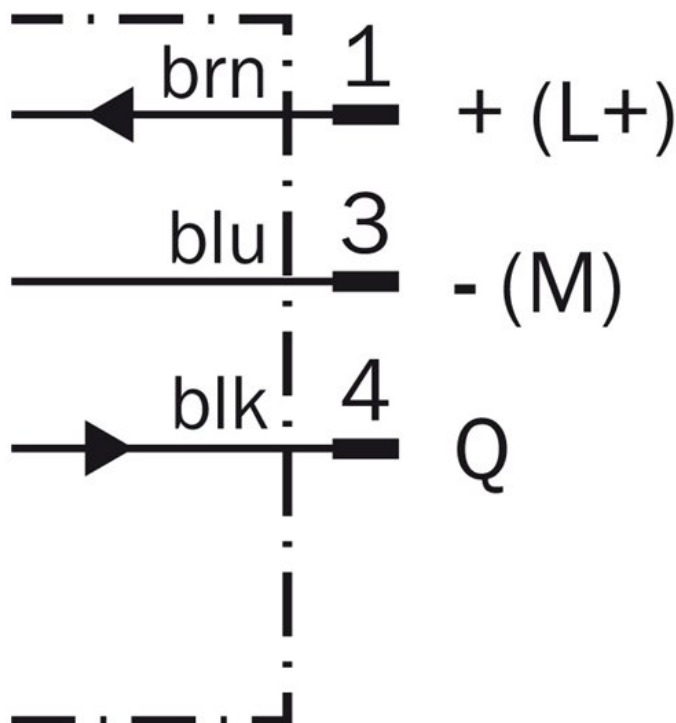
1) Limit values, operation in short-circuit protected network max. 8 A
2) May not exceed or fall short of V_S tolerances
3) Bez obciążenia
4) Signal transit time with resistive load
5) With light/dark ratio 1:1
6) Do not bend below 0 °C
7) $A = V_S$ connections reverse-polarity protected
8) C = interference suppression
9) D = outputs overcurrent and short-circuit protected

Dimensional drawing

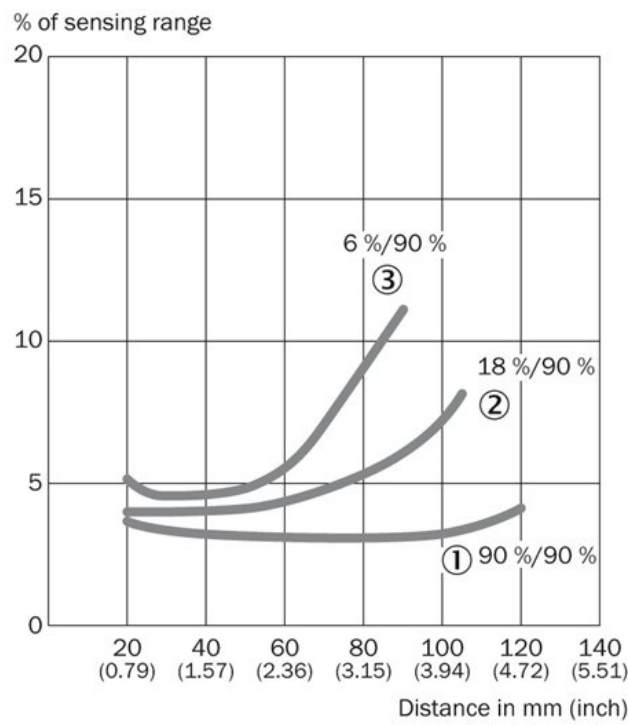


- |1| Optical axis receiver
- |2| Optical axis sender
- |3| Mounting hole, Ø 3.2 mm
- |4| Status indicator LED green: power on
- |5| Status indicator LED, yellow: Status of received light beam
- |6| Potentiometer
- |7| Connection

Connection diagram

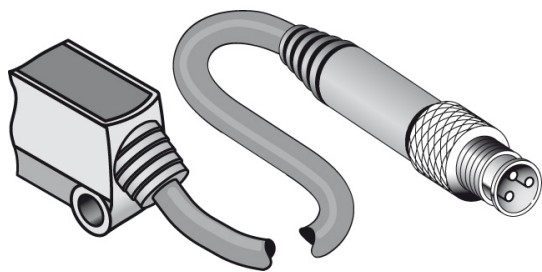


Characteristic curve

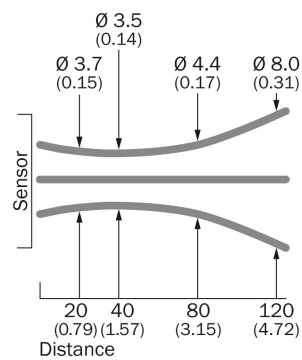


- [1] Sensing range on white, 90 % remission
- [2] Sensing range on grey, 18 % remission
- [3] Sensing range on black, 6 % remission

Connection type

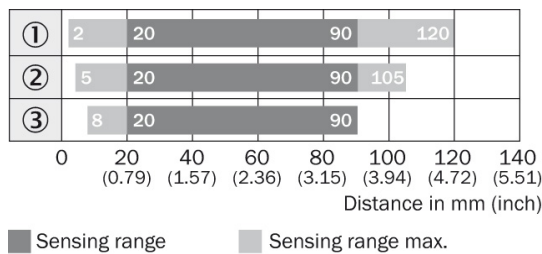


Light spot size



All dimensions in mm (inch)

Sensing range diagram



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