



Fotoprzełączniki W34, Fotoprzełącznik odbiciowy, Tłumienie tła

WT34-B440



SICK
Sensor Intelligence.

Nazwa modelu > **WT34-B440**

Numer części > **1019237**



At a glance

- Precise background suppression at long ranges
- Immune to ambient light and crosstalk from another sensor
- Switch selectable PNP or NPN output and light/dark switching
- Versions with DC voltage (10...30V) or universal AC/DC voltage (12 ... 240 V DC / 24 ... 240 V AC)
- Optional test input, adjustable ON and OFF time delays, alarm output
- M12 or terminal chamber connection: 90° rotatable
- UL approval

Your benefits

- Versions with IR LED provide precise object detection at sensing ranges of 2500 mm
- Immune to ambient light and crosstalk from another sensor, providing reliable operation and less downtime
- The sensor cover protects configuration components against environmental hazards
- Adjustable time delay, alarm output, test input, and universal AC/DC voltage provide additional flexibility and reduce the number of part numbers needed



Cechy

Wymiary (Szer. x Wys. x Głęb.):	27 mm x 92 mm x 70 mm
Maks. strefa działania:	100 mm ... 1.200 mm ¹⁾
Sensing range:	100 mm ... 1.200 mm
Housing desig (light emission):	Prostopadłościenna
Nadajnik światła:	LED ²⁾
Rodzaj światła:	widzialne światło czerwone
Długość fali:	660 nm
Adjustment of operating distance:	Potentiometer
Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Light spot (distance):	40 mm (1.200 mm)

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

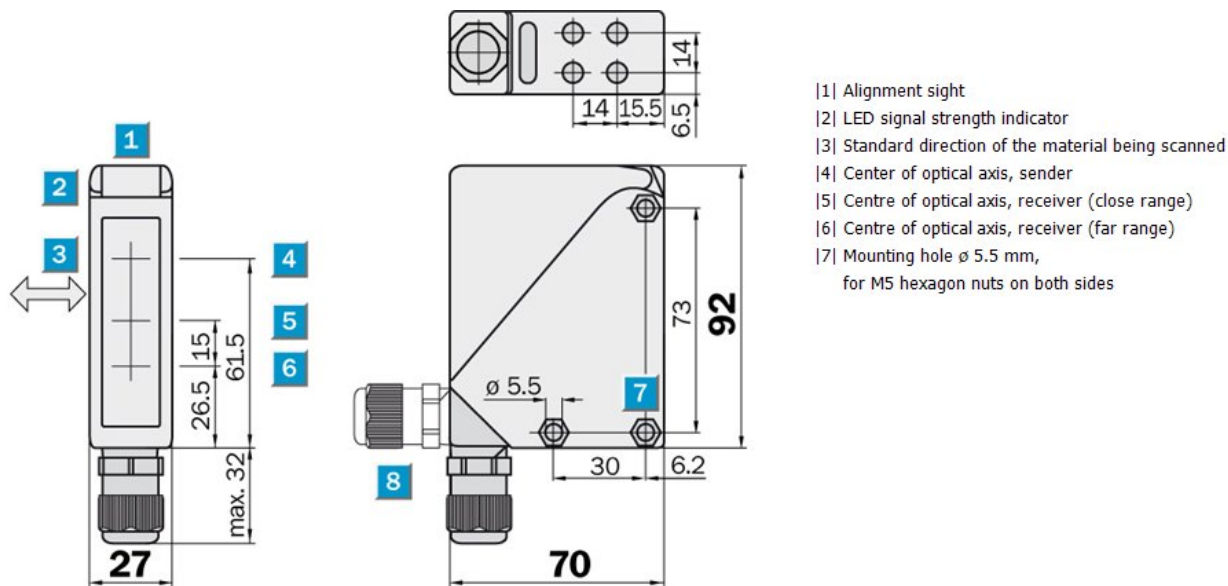
Mechanika/elektronika

Rodzaj zabezpieczenia:	IP 67
Napięcie zasilania:	10 V DC ... 30 V DC

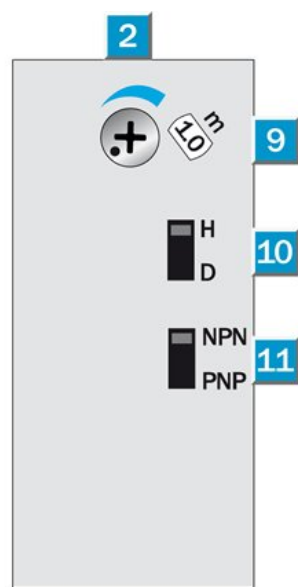
Tętnienia resztkowe:	< 5 Vss ²⁾
Pobór prądu:	≤ 50 mA
Wyjście przełączające:	NPN, light switching, selectable via PNP/NPN selector PNP, Dark-switching, selectable via light/dark selector
Output current I _{max} .:	100 mA
Czas reakcji:	≤ 500 μs ³⁾
Switching frequency:	1.000 Hz ⁴⁾
Typ połączenia:	Wtyk M12, 4-pinowe ⁵⁾
Klasa ochronności:	II ⁶⁾
Układ zabezpieczenia:::	A C 7) 8) 9) D
Ciężar:	140 g
Tworzywo, obudowa:	ABS
Ambient temperature, operation:	-40 °C ... 60 °C
Ambient temperature, storage:	-40 °C ... 75 °C
Wejście testowe, nadajnik wyłączony:	TE to 0 V

¹⁾ Limit values ²⁾ May not exceed or fall short of V_S ³⁾ Signal transit time with resistive load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Connection rotatable by 90° ⁶⁾ Reference voltage 50 V DC ⁷⁾ A = V_S connections reverse-polarity protected ⁸⁾ C = interference suppression ⁹⁾ D = outputs overcurrent and short-circuit protected

Dimensional drawing

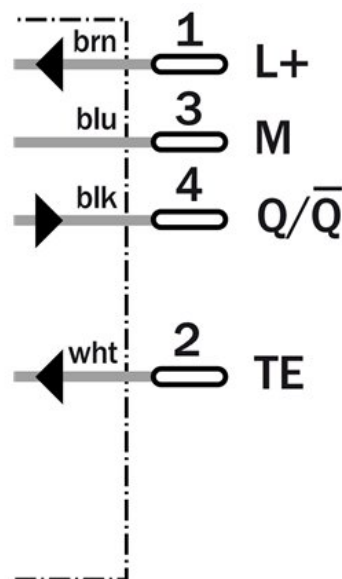


Einstell-Möglichkeiten

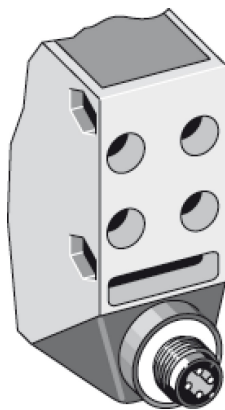


- |2| Receive indicator
- |9| Sensing distance adjustment
- |10| Light/ dark selector
- |11| NPN/ PNP selector

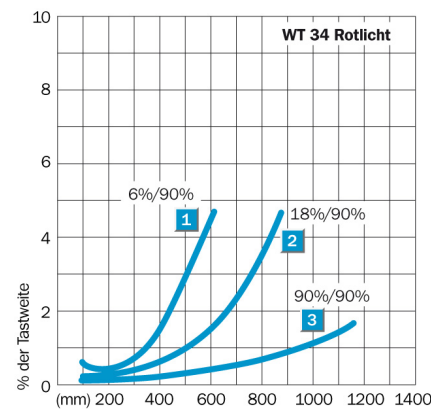
Connection diagram



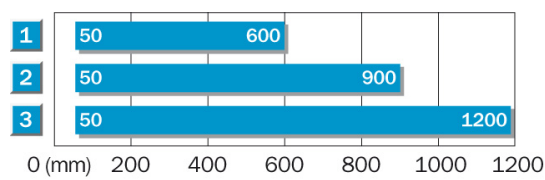
Connection type



Characteristic curve



Sensing range diagram



1	Scanning distance on black ⁹⁾
2	Scanning distance on grey ⁹⁾
3	Scanning distance on white ⁹⁾

Australia

Phone +61 3 9497 4100
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(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

Ceská Republika

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

China

Phone +852-2763 6966
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 +972-4-999-0590
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

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

Slovenija

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

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 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