



Fotoprzełączniki W34, Fotoprzełącznik refleksyjny, Standard optics

WL34-B440



SICK
Sensor Intelligence.

Nazwa modelu > **WL34-B440**

Numer części > **1019246**



Produkt może różnić się od ilustracji

At a glance

- High operating reserve at a long range
- 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

- High operating reserve at a long range minimizes downtime
- Alarm output provides early warning that maintenance may be needed
- Test input allows users to validate that the sensor is operating as expected
- 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

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, Standard optics
Wymiary (Szer. x Wys. x Głęb.):	27 mm x 92 mm x 70 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	0,03 m ... 22 m ¹⁾
Sensing range:	0,03 m ... 22 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Długość fali:	660 nm
Light spot diameter (distance):	Ø 250 mm (15 m)
Nastawienie czułości:	Potentiometer
Typ czasu:	Time delay off, Przelącznik z opóźniaczem, Adjustable
Czas opóźnienia:	Adjustable via time delay selector switch: 0,5 ... 10 s

1) 2) PL80A ³⁾ Average service life 100,000 h at Ta = +25 °C

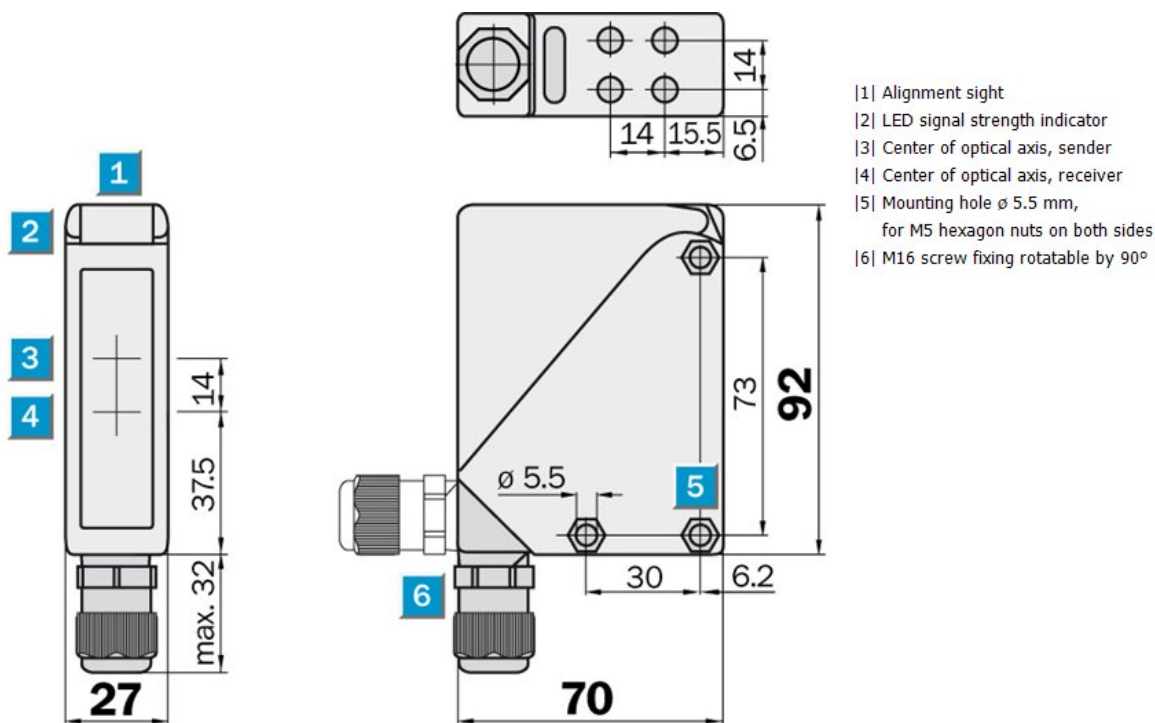
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
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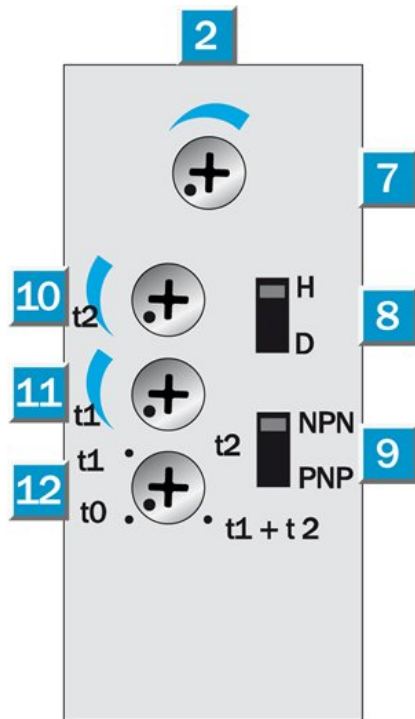
Tętnienia resztkowe:	$< 5 V_{SS}$ ²⁾
Pobór prądu:	$\leq 50 \text{ mA}$
Wyjście przełączające:	NPN, PNP
Tryb przełączania:	Dark-switching, Przełączanie na jasnym
Switching mode selector:	Selectable via light/dark selector, Selectable via PNP/NPN selector
Output current I _{max} ::	100 mA
Czas reakcji:	$\leq 500 \mu\text{s}$ ³⁾
Switching frequency:	1.000 Hz ⁴⁾
Sposób przyłączenia:	Connector M12, 4-pin ⁵⁾
Układ zabezpieczenia:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochronności:	II ⁹⁾
Ciężar:	140 g
Filtr polaryzacyjny:	✓
Special device:	-
Tworzywo, obudowa:	ABS
Rodzaj zabezpieczenia:	IP 67
Wejście testowe, nadajnik wyłączony:	TE to 0 V
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File-No.:	UL No. NRKH.E181493 & cUL No. NRKH7.E181493

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) A = V_S
connections reverse-polarity protected 7) C = interference suppression 8) D = outputs overcurrent and short-circuit protected 9) Reference voltage 50 V DC

Dimensional drawing

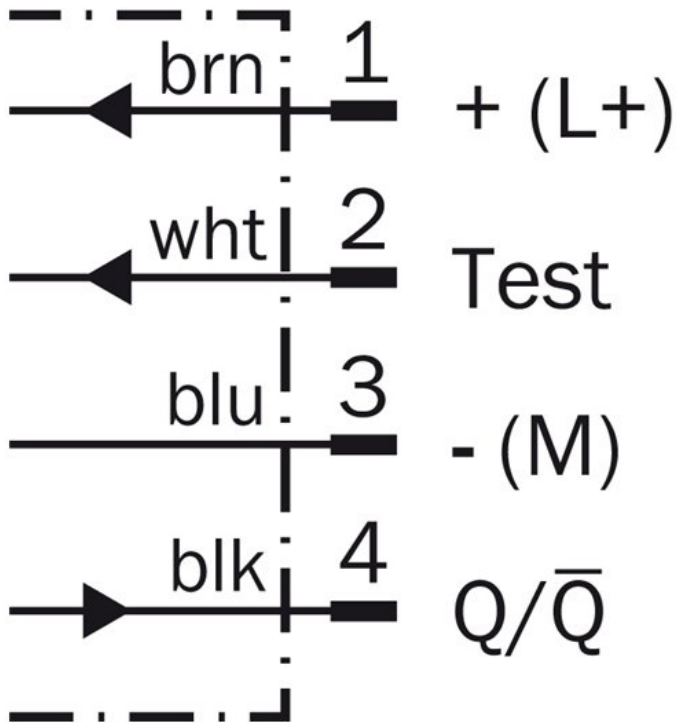


Adjustments possible

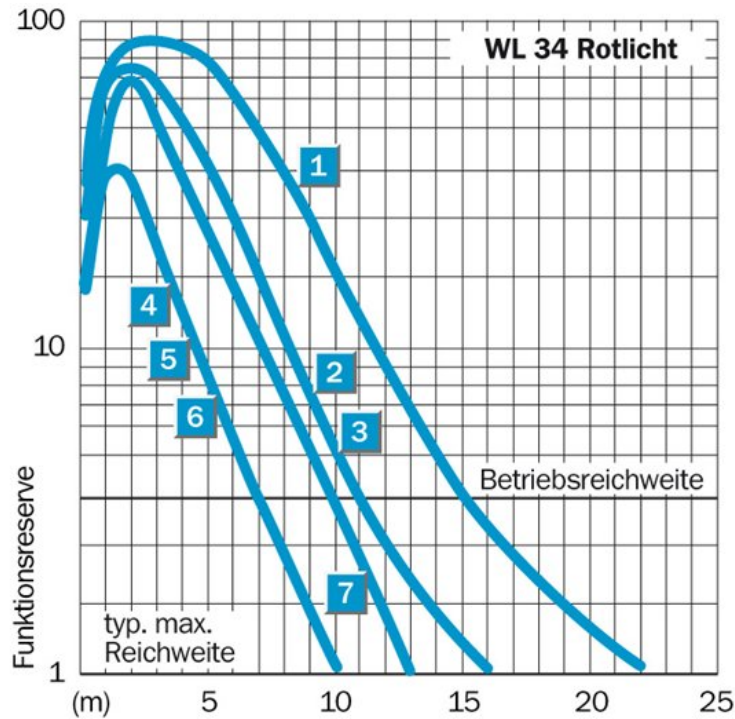


- |2| LED signal strength indicator
- |7| Sensitivity adjustment
- |8| Light/dark selector
- |9| NPN/ PNP selector
- |10| Time control t_2 =OFF-delay
- |11| Time control t_1 =ON-delay
- |12| time delay selector switch

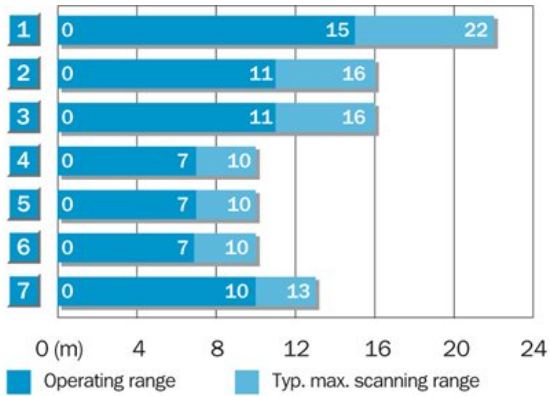
Connection diagram



Characteristic curve

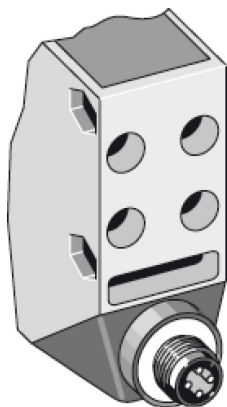


Sensing range diagram



Reflector type	Operating range
1 PL 80 A	0 to 15 m
2 PL 50 A	0 to 11 m
3 PL 40 A	0 to 11 m
4 PL 30 A	0 to 7 m
5 PL 20 A	0 to 7 m
6 Diamond Grade (20 cm x 20 cm)	0 to 7 m
7 C 110	0 to 10 m

Connection type



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