



Fotoprzełączniki W4S-3 Glass, Fotoprzełącznik refleksyjny, autocollimation

WLG4S-3E1134



Nazwa modelu > **WLG4S-3E1134**

Numer części > **1042085**



Produkt może różnić się od ilustracji

At a glance

- Continuous threshold adaption of the switching threshold compensates for environmental changes
- Single-lens autocollimation optics
- Simple setting either via teach-in pushbutton, cable or IO-Link
- PinPoint LED technology with a small, highly visible, well-defined light spot enables high reserve levels when using small reflectors
- Flexible sensor settings, monitoring, advanced diagnostics, and visualization thanks to IO-Link

Your benefits

- Optimal detection of any kind of transparent object
- Quick and easy operation via the push of a button - automatic setting of the correct switching threshold
- Less downtime due to a Continuous Threshold Adaption which compensates for changing environmental conditions, including temperature, dust and drift effects
- The well-defined, highly visible intense light spot provides quick and reliable alignment
- IO-Link provides easy data access from the PLC
- Quick and easy configuration
- Quick and easy integration using function blocks
- Easy device replacement and identification



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny, autocollimation
Wymiary (Szer. x Wys. x Głęb.):	12,2 mm x 41,8 mm x 17,3 mm
Housing design (light emission):	Prostopadłościenna
Maks. strefa działania:	0,01 m ... 5 m ¹⁾
Sensing range:	0 m ... 3 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	Pin Point LED ³⁾
Długość fali:	650 nm
Teach-in:	Single teach-in button
Nastawa:	Teach-in cable
Średnica plamki świetlnej (odległość):	Ø 45 mm (1,5 m)
Continuous threshold adaption:	✓

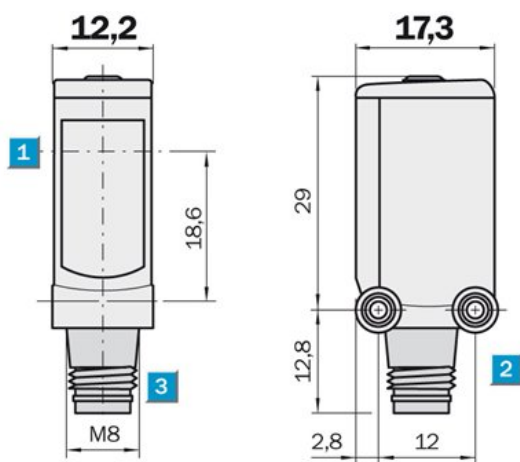
1) 2) PL80A 3) Average service life of 100,000 h at $T_A = +25\text{ }^{\circ}\text{C}$

Mechanika/elektronika

Napięcie zasilania:	10 V DC... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Pobór prądu:	≤ 20 mA ³⁾
Wyjście przełączające:	NPN
Tryb przełączania:	Dark-switching
Output current I _{max} :	≤ 100 mA
Czas reakcji:	< 0,5 ms ⁴⁾
Switching frequency:	1.000 Hz ⁵⁾
Kąt odbioru:	30 °
Tłumienie w drodze optycznej światła:	> 8 %
Sposób przyłączenia:	Cable, 4-wire, 2 m ⁶⁾
Cable material:	PVC
Conductor cross-section:	0,14 mm ²
Cable diameter:	3,4 mm
Układ zabezpieczenia:::	A, C, D ⁷⁾ ⁸⁾ ⁹⁾
Klasa ochronności:	III
Ciężar:	30 g
Filtr polaryzacyjny:	✓
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67 IP 66
Emitancja:	Do obiektów transparentnych
Ambient operating temperature:	-40 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 75 °C
UL File No.:	NRKH.E181493 & NRKH7.E181493

1) Limit values 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

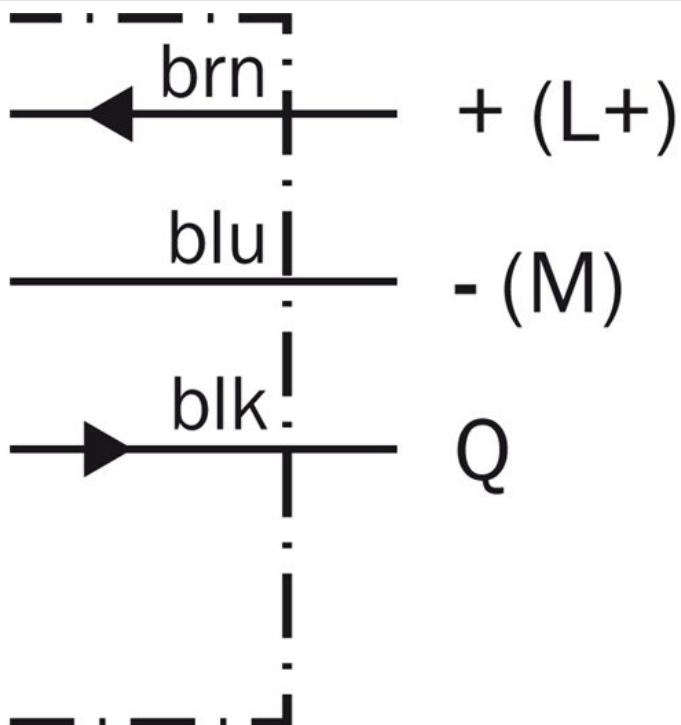
Dimensional drawing



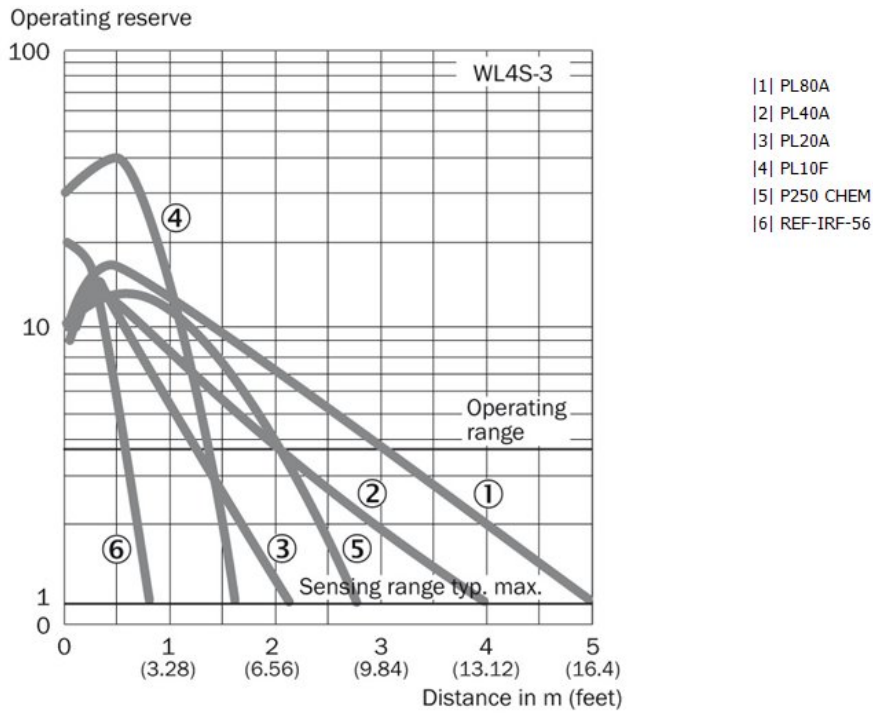
- |1| Center of optical axis
- |2| Threaded mounting hole M3
- |3| Connection
- |4| Status indicator LED green: power on
- |5| LED indicator orange: status of received light beam
- |6| Teach-in button



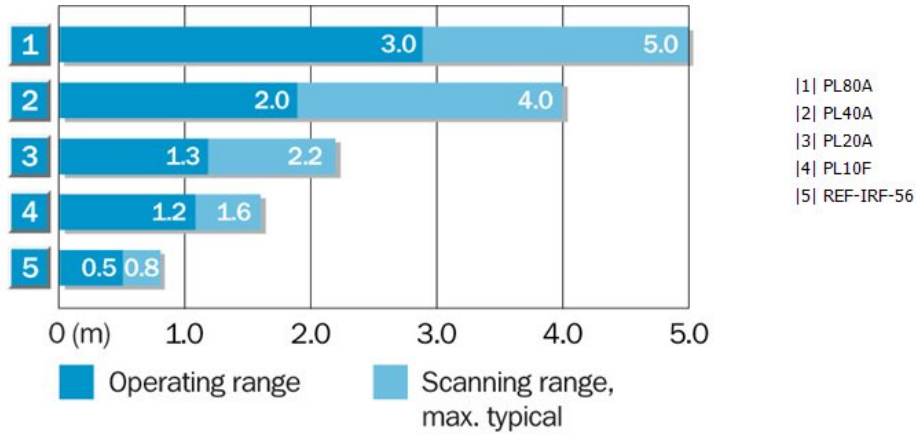
Connection diagram



Characteristic curve

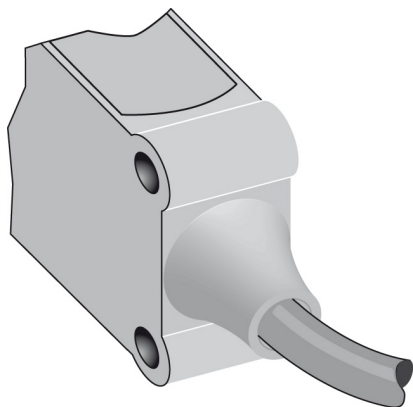


Sensing range diagram



Reflector type	Operating range
1 PL80A	0 ... 3.0 m
2 PL40A	0 ... 2.0 m
3 PL20A	0 ... 1.3 m
4 PL10F	0 ... 1.2 m
5 REF-IRF-56	0 ... 0.5 m

Connection type



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