



Fotoprzełączniki W4S-3, Fotoprzełącznik refleksyjny, autocollimation

WL4S-3E2132



Nazwa modelu > **WL4S-3E2132**

Numer części > **1042080**



Produkt może różnić się od ilustracji

At a glance

- Single-lens autocollimation optics
- All models with PinPoint LED technology provides a small intense, light spot
- Maximum sensing range of 5 m
- Long sensing ranges on small reflectors
- Quality monitoring thanks to IO-Link
- Key lock function, remote teach
- Diagnostics messages (contamination and short-circuit)

Your benefits

- Quick and easy alignment due to the PinPoint LED's small, well-defined, intense light spot
- Single-lens autocollimation optics sees through small gaps and bore holes, enabling efficient machine integration
- Long sensing ranges are obtained on small reflectors due to the small, intense light spot
- Quick and easy threshold adjustment (depending on type)
- Simple monitoring of detection quality
- Key lock function and parameter download prevent incorrect settings



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 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
Średnica plamki świetlnej (odległość):	Ø 45 mm (1,5 m)

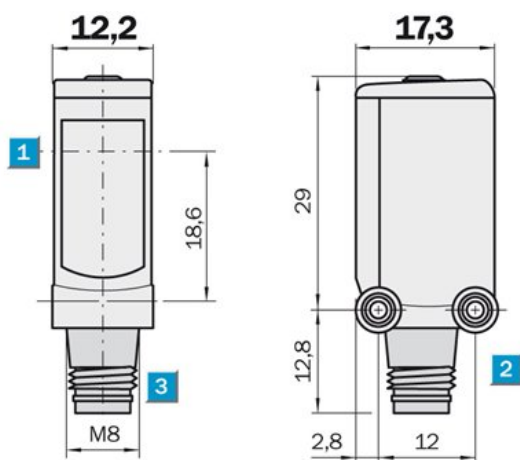
1) 2) PL80A ³⁾ Average service life of 100,000 h at T_A = +25 °C

Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Pobór prądu:	≤ 20 mA ³⁾
Wyjście przełączające:	NPN
Tryb przełączania:	Dark-switching
Output current I _{max} :	≤ 100 mA
Czas reakcji:	< 0,5 ms ⁴⁾
Switching frequency:	1.000 Hz ⁵⁾
Sposób przyłączenia:	Connector M8, 3-pin
Układ zabezpieczenia:::	A, C, D ⁶⁾ ⁷⁾ ⁸⁾
Klasa ochronności:	III
Ciężar:	30 g
Filtr polaryzacyjny:	✓
Special device:	-
Tworzywo, obudowa:	ABS, Tworzywo sztuczne
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67 IP 66
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⁾ A = V_S
connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

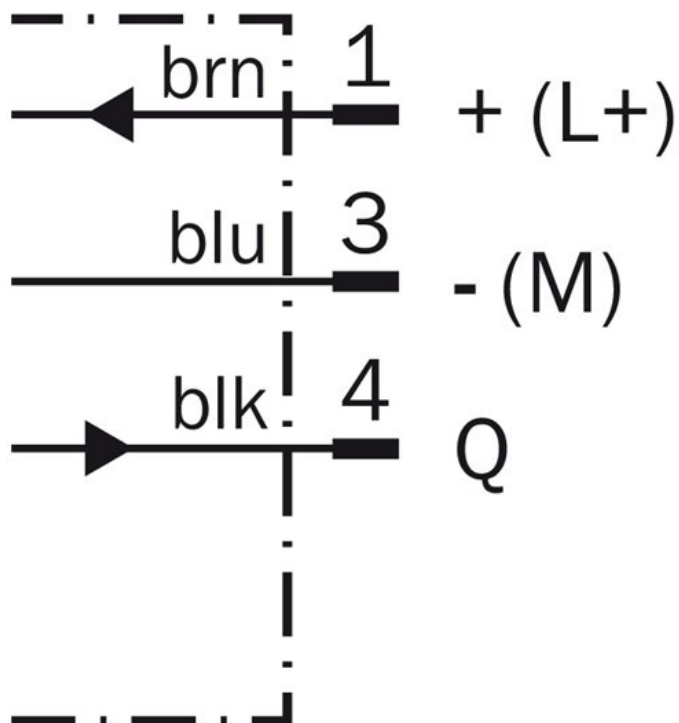
Dimensional drawing



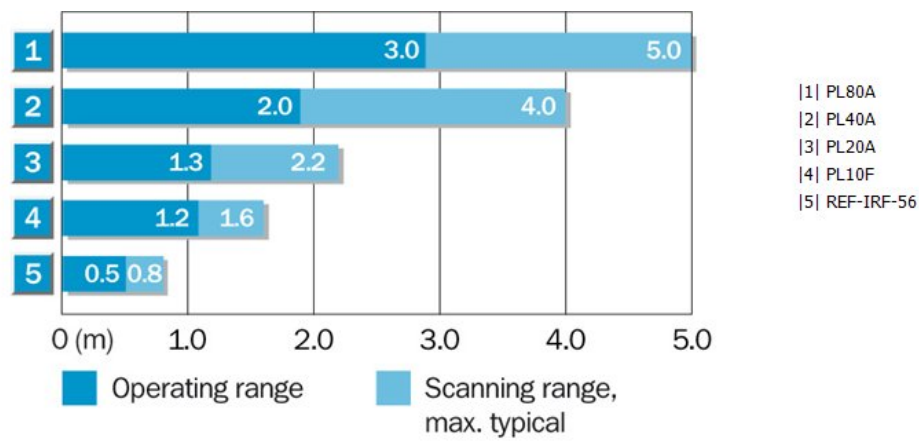
- [1] Center of optical axis
- [2] Threaded mounting hole M3
- [3] Connection
- [4] Status indicator LED green: power on
- [5] LED indicator orange: status of received light beam
- [6] Teach-in button



Connection diagram

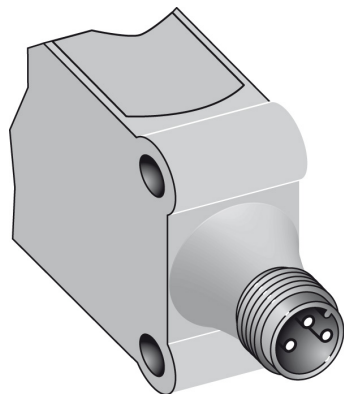


Sensing range diagram



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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