



## Fotoprzełączniki

WL4S-3P2230



Nazwa modelu > **WL4S-3P2230**

Numer części > **1042066**



### At a glance

- Autocollimation single-lens system
- All models with PinPoint technology and intensive, small light spots
- Maximum scanning range 5 m
- High scanning ranges on small reflectors

### Your benefits

- Alignment of the WL4S-3 is fast and simple due to the PinPoint LED's sharply defined, intensive light spot
- Autocollimation single-lens system enables efficient integration in the machine since the sensor can see through gaps and bore holes
- Large scanning ranges are attained on small reflectors due to the small light spot



### Cechy

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Wymiary (Szer. x Wys. x Głęb.):            | 12,2 mm x 41,8 mm x 17,3 mm                  |
| Maks. strefa działania:                    | 0 m ... 4 m <sup>1)</sup>                    |
| Sensing range:                             | 0 m ... 2,5 m <sup>2)</sup>                  |
| Housing desig (light emission):            | Slim                                         |
| Nadajnik światła:                          | Pin Point LED <sup>3)</sup>                  |
| Rodzaj światła:                            | widzialne światło czerwone                   |
| Długość fali:                              | 650 nm                                       |
| Nastawa:                                   | no/fix                                       |
| Nastawienie czułości:                      | No/fix                                       |
| Zasada działania czujnika/Sposób detekcji: | Fotoprzełącznik refleksyjny, autocollimation |
| Light spot (distance):                     | 45 mm (1,5 m)                                |

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

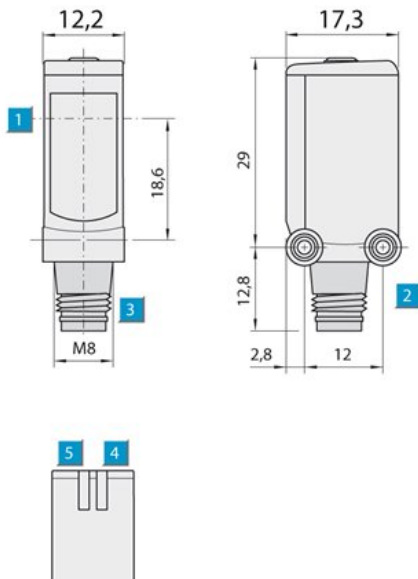
### Mechanika/elektronika

|                        |                                           |
|------------------------|-------------------------------------------|
| Rodzaj zabezpieczenia: | IP 67<br>IP 66                            |
| Napięcie zasilania:    | 10 V DC ... 30 V DC <sup>1)</sup>         |
| Tętnienia resztkowe:   | < 5 Vss <sup>2)</sup>                     |
| Pobór prądu:           | 20 <sup>3)</sup>                          |
| Wyjście przełączające: | PNP, przełączanie jasno/ciemno, wybierane |
| Output current Imax.:  | 100                                       |
| Czas reakcji:          | < 0,5 ms <sup>4)</sup>                    |
| Switching frequency:   | 1.000 With light/dark ratio 1:1           |

|                                 |                      |
|---------------------------------|----------------------|
| Sposób przyłączania:            | Connector M8, 4-pin  |
| Ilość żył:                      | 4                    |
| Klasa ochronności:              | III                  |
| Układ zabezpieczenia:::         | A<br>C 5) 6) 7)<br>D |
| Ciężar:                         | 30 g                 |
| Tworzywo, obudowa:              | ABS                  |
| Tworzywo, układ optyczny:       | PMMA                 |
| Ambient temperature, operation: | -40 °C ... 60 °C     |
| Ambient temperature, storage:   | -40 °C ... 75 °C     |
| Filtr polaryzacyjny:            | ✓                    |

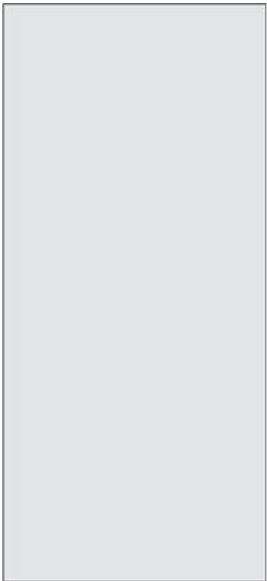
<sup>1)</sup> Limit values    <sup>2)</sup> May not exceed or fall short of  $V_S$  tolerances    <sup>3)</sup> Without load    <sup>4)</sup> Signal transit time with resistive load    <sup>5)</sup> A = VS connections reverse-polarity protected    <sup>6)</sup> C = interference suppression    <sup>7)</sup> D = outputs overcurrent and short-circuit protected

## Rysunek techniczny

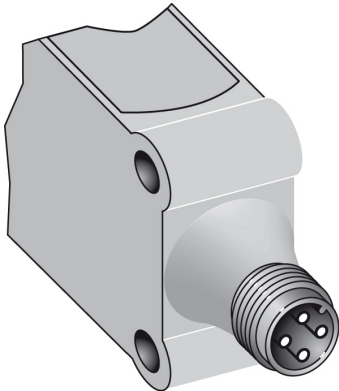


- [1] Center of optical axis
- [2] Threaded mounting hole M3
- [3] Connection
- [4] Status indicator LED, green: power on
- [5] Status indicator LED, yellow: Status of received light beam

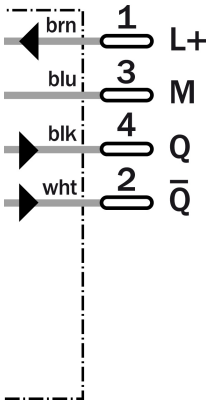
Możliwość dostosowania



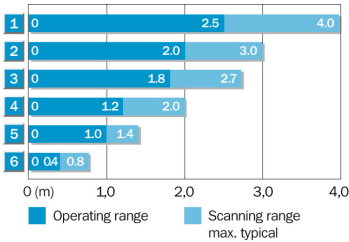
Typ połączenia



Schemat połączenia



Krzywa charakterystyki



| Reflector type | Operating range |
|----------------|-----------------|
| 1 PL80A        | 0 ... 2.5 m     |
| 2 PL250F       | 0 ... 2.0 m     |
| 3 PL40A        | 0 ... 1.8 m     |
| 4 PL20F        | 0 ... 1.2 m     |
| 5 PL10F        | 0 ... 1.0 m     |
| 6 REF-IRF-56   | 0 ... 0.4 m     |

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