



Photoelectric sensors
Z7, Photoelectric retro-reflective sensor

ZL7-P2400S01

Model Name > [ZL7-P2400S01](#)
Part No. > [1046191](#)

At a glance

- Optical and electrical elements can be integrated into specific housings
- The Z1 and Z2 models come with integrated M18 threads. The Z3 model, or the “Eyeball”, can be aligned in any direction, just like the human eye 18 mm front and flange mounting possibility
- The eyeball-shaped housing allows for infinite adjustability and the indicator LED to be seen from 360° around the device.
- Compact, transparent housing
- Proximity sensors with 3 different sensing ranges and retro-reflective sensors are available

Your benefits

- Customer-specific housing modifications
- Simple and unique mounting options lower installation costs
- Compatibility with competitor products for easy integration into existing systems
- Low-cost sensor for standard applications with small sensing distances
- Small size fits applications with limited space
- High performance at a low cost



Features

Sensor/detection principle:	Photoelectric retro-reflective sensor
Housing design (light emission):	Hybrid
Sensing range max.:	0.05 m ... 2 m ¹⁾
Sensing range:	0.07 m ... 1.5 m ²⁾
Type of light:	Visible red light
Light source:	LED ³⁾
Wave length:	660 nm
Special features:	optimized for reflector module PL21MS06P07, sensor built into bracket with push in snap pins

^{1) 2)} PLM21MS06P07 ³⁾ Average service life 100,000 h at Ta = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp ²⁾
Power consumption:	< 20 mA ³⁾
Output type:	PNP, Light-switching
Output current I _{max.} :	50 mA

Response time:	1.2 ms
Switching frequency:	400 Hz ⁴⁾
Connection type:	Cable with plug, M8, 3-pin, 500 mm ⁵⁾
Circuit protection::	A ^{6) 7)} D
Protection class:	III ⁸⁾
Polarisation filter:	✓
Special device:	✓
Housing material:	ABS
Enclosure rating:	IP 67
Ambient operating temperature:	-25 °C ... 60 °C
Ambient storage temperature:	-40 °C ... 70 °C

¹⁾ Limit values ²⁾ May not exceed or fall short of V_S ³⁾ Without load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Do not bend below 0 °C ⁶⁾ A = VS connections reverse-polarity protected ⁷⁾ D = outputs overcurrent and short-circuit protected ⁸⁾ Reference voltage 50 V DC

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