



Photoelectric sensors
Z4, Photoelectric proximity sensor, energetic

ZT4-F5215S02

Model Name > [ZT4-F5215S02](#)
Part No. > [1054290](#)

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 proximity sensor, energetic
Housing design (light emission):	Hybrid
Sensing range max.:	2 mm ... 150 mm ¹⁾ 2) 3 mm ... 100 mm
Sensing range:	2 mm ... 150 mm 3 mm ... 100 mm
Type of light:	Infrared light
Light source:	LED ³⁾
Light spot (distance):	18 mm (80 mm)
Wave length:	880 nm
Special features:	snap housing

¹⁾ Object with 90 % reflectance (referred to standard white DIN 5033) ²⁾ Object with 18 % reflectance ³⁾ Average service life 100,000 h at Ta = +25 °C

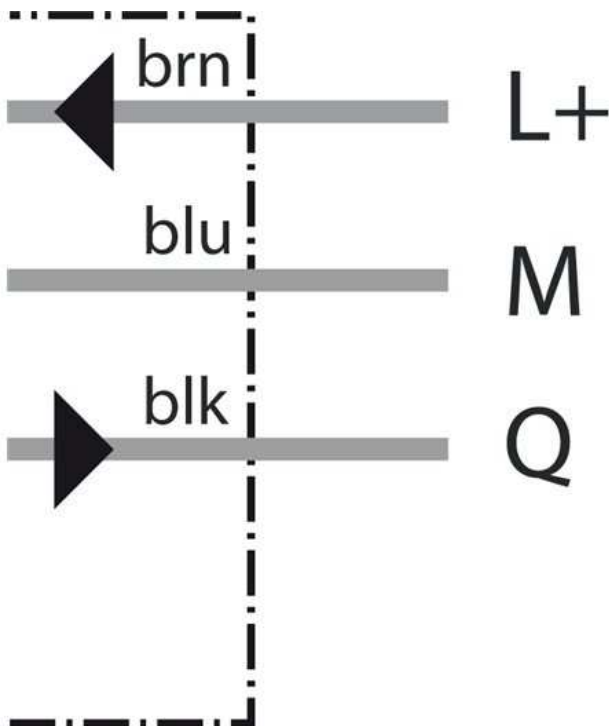
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp ²⁾
Power consumption:	< 20 mA ³⁾

Output type:	PNP, Dark-switching
Output current I _{max.} :	50 mA
Switching frequency:	200 Hz ⁴⁾
Connection type::	Cable, 3-wire, 2 m ^{5) 6)}
Cable diameter:	2.3 mm
Circuit protection:::	A C ^{7) 8) 9)} D ¹⁰⁾
Protection class:	II ¹⁰⁾
Special device:	✓
Enclosure rating:	IP 65
Ambient operating temperature:	-20 °C ... 50 °C
Ambient storage temperature:	-40 °C ... 75 °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⁾ Open wires ⁷⁾ A = VS connections reverse-polarity protected ⁸⁾ C = interference suppression ⁹⁾ D = outputs overcurrent and short-circuit protected ¹⁰⁾ Reference voltage 50 V DC

Connection diagram



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