



Photoelectric sensors
Z-Sensor, Photoelectric retro-reflective sensor,
Standard optics

ZL3-F2425



Model Name > ZL3-F2425
Part No. > 1066618



Illustration may differ

At a glance

- 4.8 m sensing distance; no setting options
- Transparent housing with 360° status indication
- 24 mm ball mount allows for infinite adjustability
- Spherical eyeball-style housing
- Connection system: straight cable outlet

Your benefits

- Low-cost, retro-reflective sensor for standard applications
- Clear housing provides 360° status indication, which simplifies troubleshooting
- Special accessories that allow for infinite adjustability



Features

Sensor/detection principle:	Photoelectric retro-reflective sensor, Standard optics
Housing design (light emission):	Hybrid
Housing length:	25 mm
Sensing range max.:	0.1 m ... 4.8 m ¹⁾
Sensing range:	0.1 m ... 3 m ²⁾
Type of light:	Visible red light
Light source:	LED ³⁾
Wave length:	660 nm
Light spot size (distance):	125 mm (1 m)

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

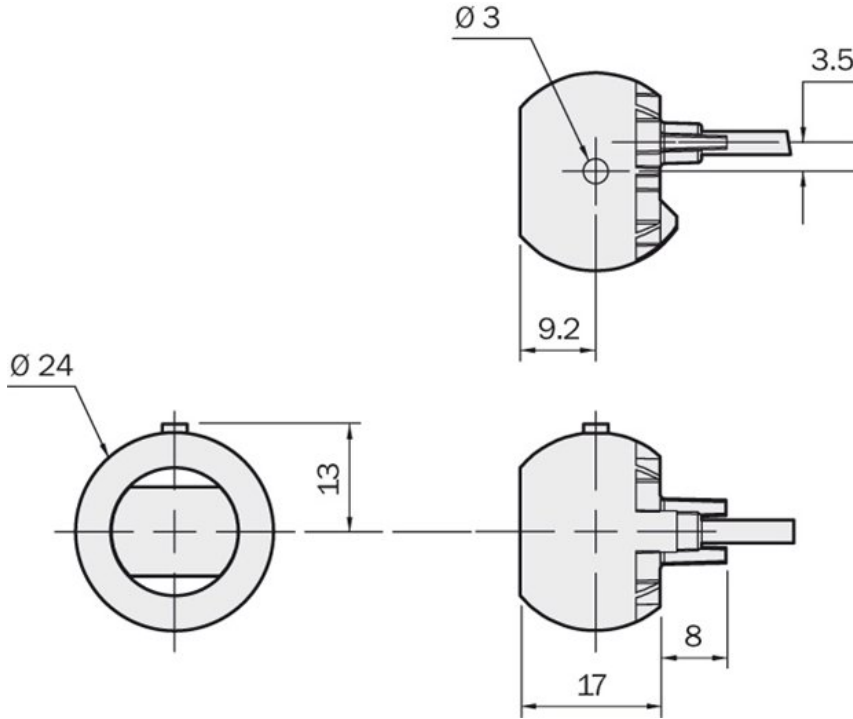
Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC ¹⁾
Ripple:	< 5 Vpp ²⁾
Power consumption:	< 20 mA ³⁾
Switching output:	PNP
Switching output:	Dark switching
Output current I _{max.} :	50 mA
Switching frequency:	± 400 Hz ⁴⁾
Connection type:	Cable with connector M12, 4-pin, 2 m ⁵⁾
Circuit protection::	A, D ^{6) 7)}
Protection class:	III ⁸⁾
Polarisation filter:	✓

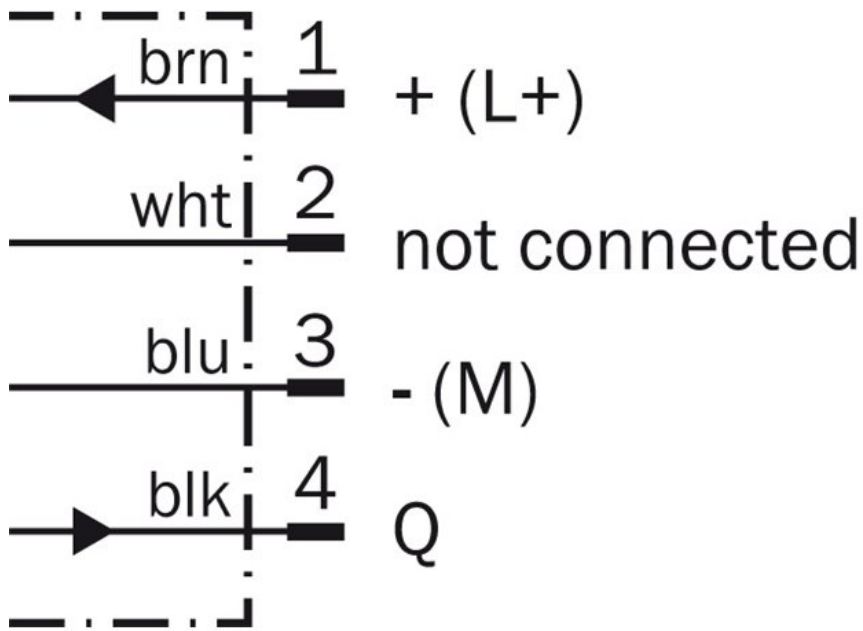
Housing material: Glass fiber reinforced ABS plastic, Plastic
 Enclosure rating: IP 67
 Ambient operating temperature: -25 °C ... 50 °C
 Ambient storage temperature: -40 °C ... 70 °C

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

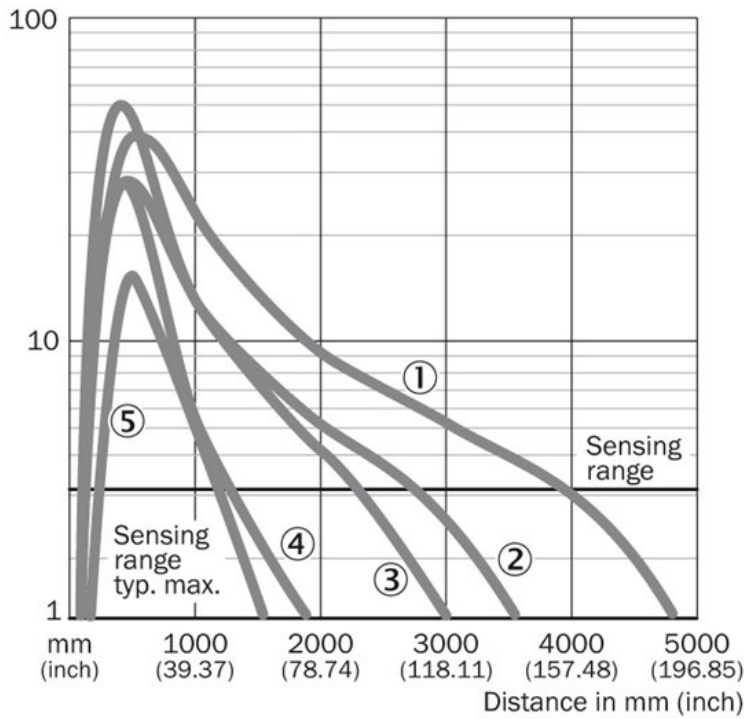
Dimensional drawing



Connection diagram

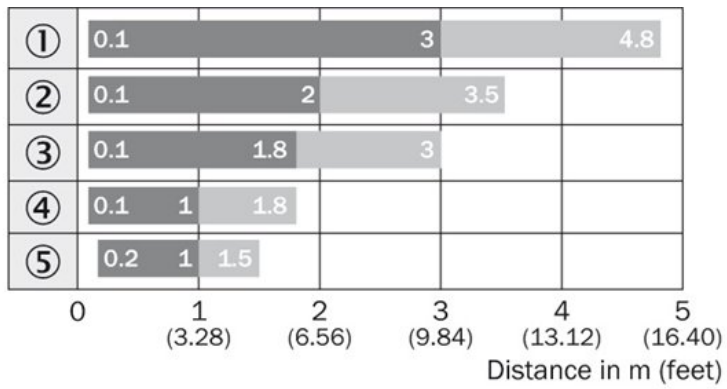


Characteristic curve



- [1] PL80A
- [2] P250
- [3] PL40A
- [4] PL20A
- [5] Reflective tape REF-Plus

Sensing range diagram



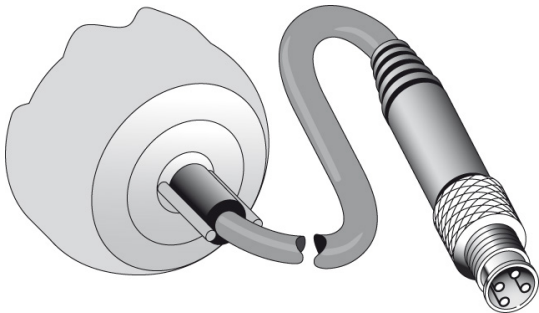
- |1| PL80A
- |2| P250
- |3| PL40A
- |4| PL20A
- |5| Reflective tape REF-Plus

Sensing range
 Sensing range typ. max.

Reflector type

- ① PL80A
- ② P250
- ③ PL40A
- ④ PL20A
- ⑤ REF-PLUS

Connection type



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