



Fotoprzełączniki ELF3, Fotoprzełącznik refleksyjny

EL3-F2415



Nazwa modelu > [EL3-F2415](#)

Numer części > [1043961](#)



At a glance

- Flush red lens
- Polarization filter
- Clear back cover for highly visible status indication
- 18 mm front and base mount
- Status and output indicator

Your benefits

- A wide range of customizable options reduces material and labor costs
- Flush red lens provides an increased sensing range for a broader range of application possibilities
- IP 67-rated housing offers a long service life that stands up to harsh environments, reducing maintenance time and costs
- Highly visible status/power indicator provides quick and easy troubleshooting from a distance
- Small sensor footprint easily fits into applications with limited space
- Polarization filter provides reliable detection of shiny objects



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik refleksyjny
Wymiary (Szer. x Wys. x Głęb.):	23,8 mm x 45,4 mm x 33,6 mm
Housing design (light emission):	Hybrid
Thread diameter (housing):	M18
Maks. strefa działania:	0,1 m ... 4,8 m ¹⁾
Sensing range:	0,1 m ... 3 m ²⁾
Rodzaj światła:	Widzialne światło czerwone
Nadajnik światła:	LED ³⁾
Light spot (distance):	1 m
Długość fali:	660 nm

1) 2) PL80A³⁾ Average service life 100,000 h at Ta = +25 °C

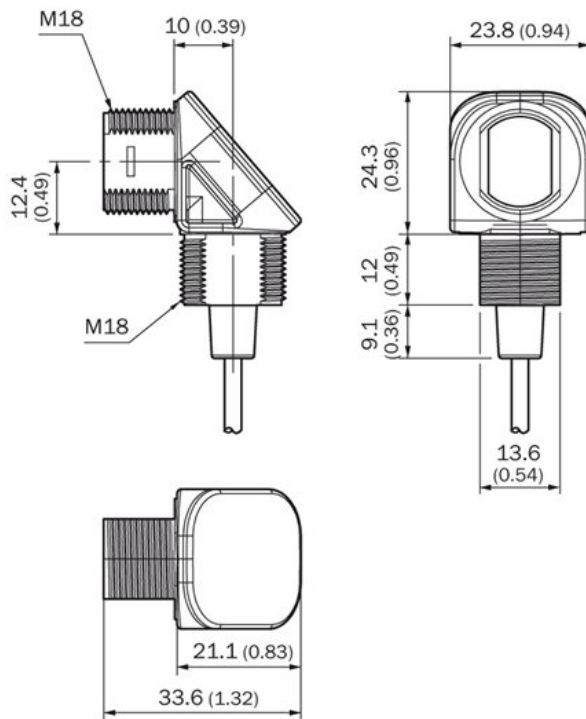
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Pobór prądu:	< 20 mA ³⁾
Wyjście przełączające:	PNP, Dark-switching

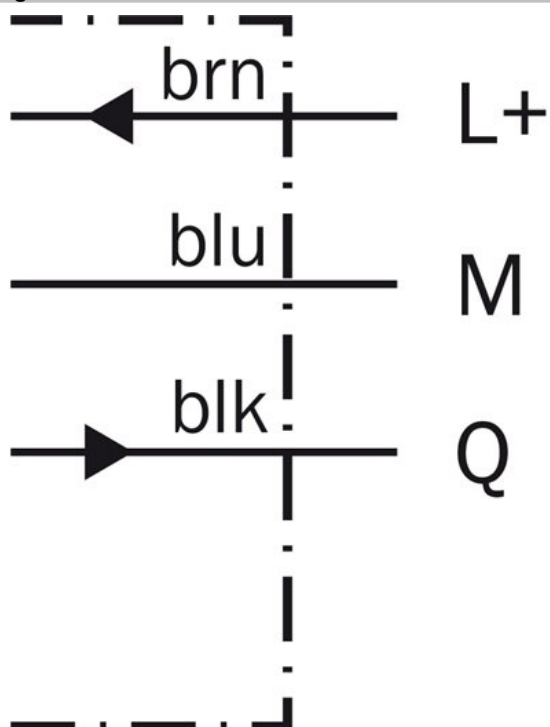
Output current I _{max} ..:	50 mA
Switching frequency:	400 Hz ⁴⁾
Sposób przyłączenia:	Cable, 3-wire, 2 m ⁵⁾
Cable material:	PVC
Conductor cross-section:	0,23 mm ²
Układ zabezpieczenia::	A, D ^{6) 7)}
Klasa ochronności:	III ⁸⁾
Ciężar:	0,036 kg, 0,08 lbs
Filtr polaryzacyjny:	✓
Tworzywo, obudowa:	Glass fiber reinforced ABS plastic
Rodzaj zabezpieczenia:	IP 67
Dostawa:	Mounting nut M18
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 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

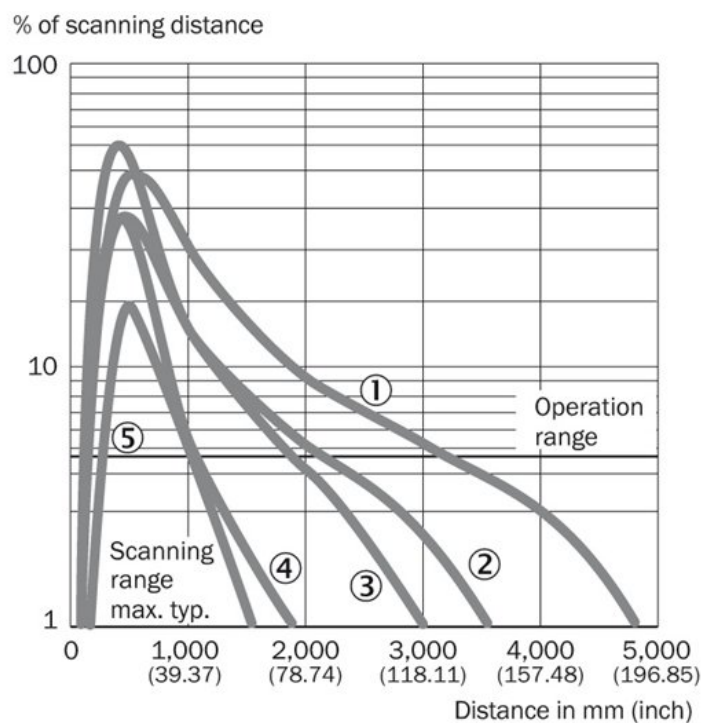
Dimensional drawing



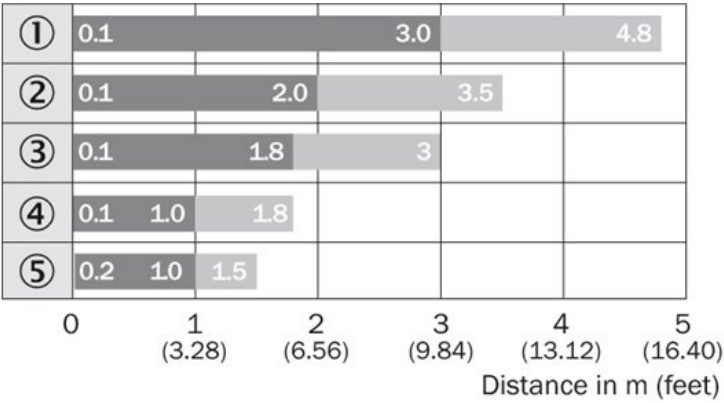
Connection diagram



Characteristic curve



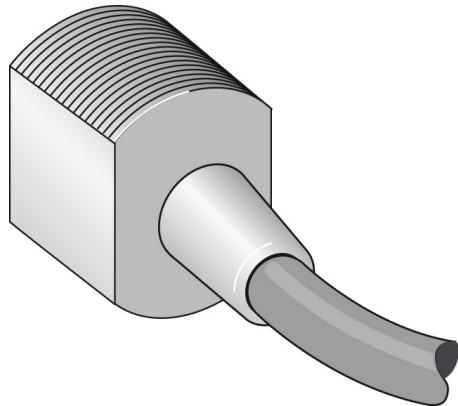
Sensing range diagram



■ Operating distance ■ Scanning distance typ.max.

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

Connection type



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