



Fotoprzełączniki ELF3, Fotoprzełącznik odbiciowy, energetyczny

ET3-P4215



Nazwa modelu > **ET3-P4215**

Numer części > **1045191**



At a glance

- Background suppression or energetic variants
- Infrared light or visible red light
- Clear back cover for status indication
- 18 mm front and base mount
- Status and output indicator
- IP 67-rated for harsh environments
- Flush red lens

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
- M18 front and base mounting ensures quick and easy installation
- Small sensor footprint easily fits into applications with limited space



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, energetyczny
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:	1 mm ... 100 mm ¹⁾
Sensing range:	1 mm ... 100 mm ²⁾
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ³⁾
Light spot (distance):	100 mm
Długość fali:	880 nm

^{1) 2)} Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ³⁾ Average service life 100,000 h at Ta = +25 °C

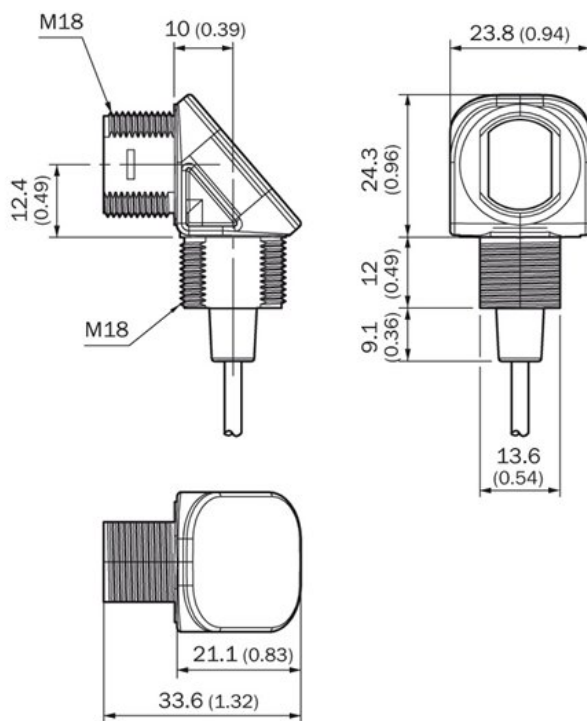
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾

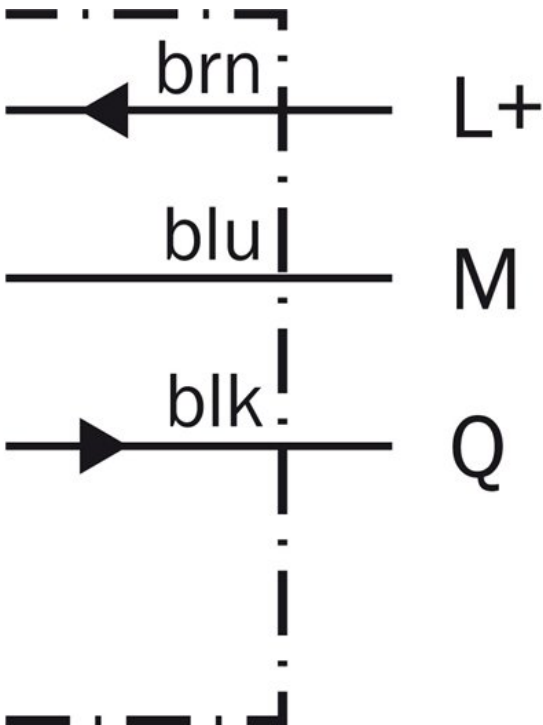
Current consumption:	< 20 mA ³⁾
Wyjście przełączające:	PNP, Light-switching
Output current I _{max} :	50 mA
Switching frequency:	200 Hz ⁴⁾
Sposób przyłączenia:	Cable, 3-wire, 2 m ⁵⁾
Cable material:	PVC
Przekrój przewodu:	0,23 mm ²
Układ zabezpieczenia::	A, D ⁶⁾ ⁷⁾
Klasa ochronności:	III ⁸⁾
Ciężar:	0,036 kg, 0,08 lbs
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

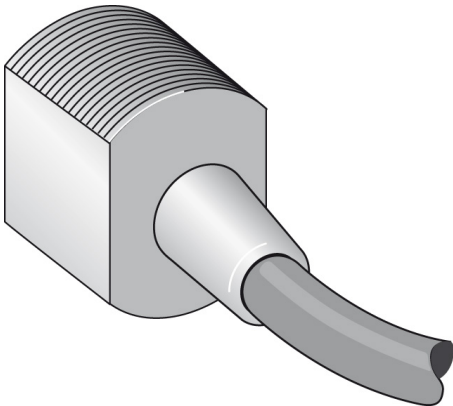
Dimensional drawing



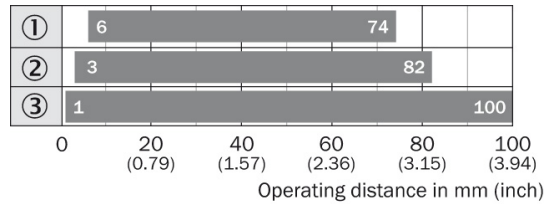
Connection diagram



Connection type



Sensing range diagram



- ① Scanning distance on black, 6 % remission
- ② Scanning distance on grey, 18 % remission
- ③ Scanning distance on white, 90 % remission

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