



Fotoprzełączniki W18-2, Fotoprzełącznik odbiciowy, Tłumienie tła

WTV18-2P420



Nazwa modelu > **WTV18-2P420**

Numer części > **1016243**



At a glance

- High-performance background suppression with large sender/receiver distance and special V-optics
- Variants available for short and longer sensing distances
- Sensing distance adjustment via potentiometer
- Connection: M12, 4-pin

Your benefits

- High-performance background suppression with large transmitter/receiver distance and special V-optics ensure reliable object detection
- Reliable detection of highly reflective surfaces
- Less downtime in industrial environments
- Crosstalk and ambient light immunity reduce false readings



Cechy

Zasada działania czujnika/Sposób detekcji:	Fotoprzełącznik odbiciowy, Tłumienie tła
Wymiary (Szer. x Wys. x Głęb.):	20 mm x 76 mm x 31,5 mm
Housing design (light emission):	Prostopadłościenna, Slim
Maks. strefa działania:	100 mm ... 200 mm ¹⁾
Sensing range:	100 mm ... 200 mm ²⁾
Rodzaj światła:	Światło podczerwone
Nadajnik światła:	LED ³⁾
Długość fali:	586 nm
Light spot diameter (distance):	Ø 8 mm (200 mm)
Nastawienie czułości:	Potentiometer, 9-turn

¹⁾ Object with 6 % remission ²⁾ Obiekt odbijający 90% światła (standardowy biały zgodnie z normą DIN 5033) ³⁾ Average service life 100,000 h at Ta = +25 °C

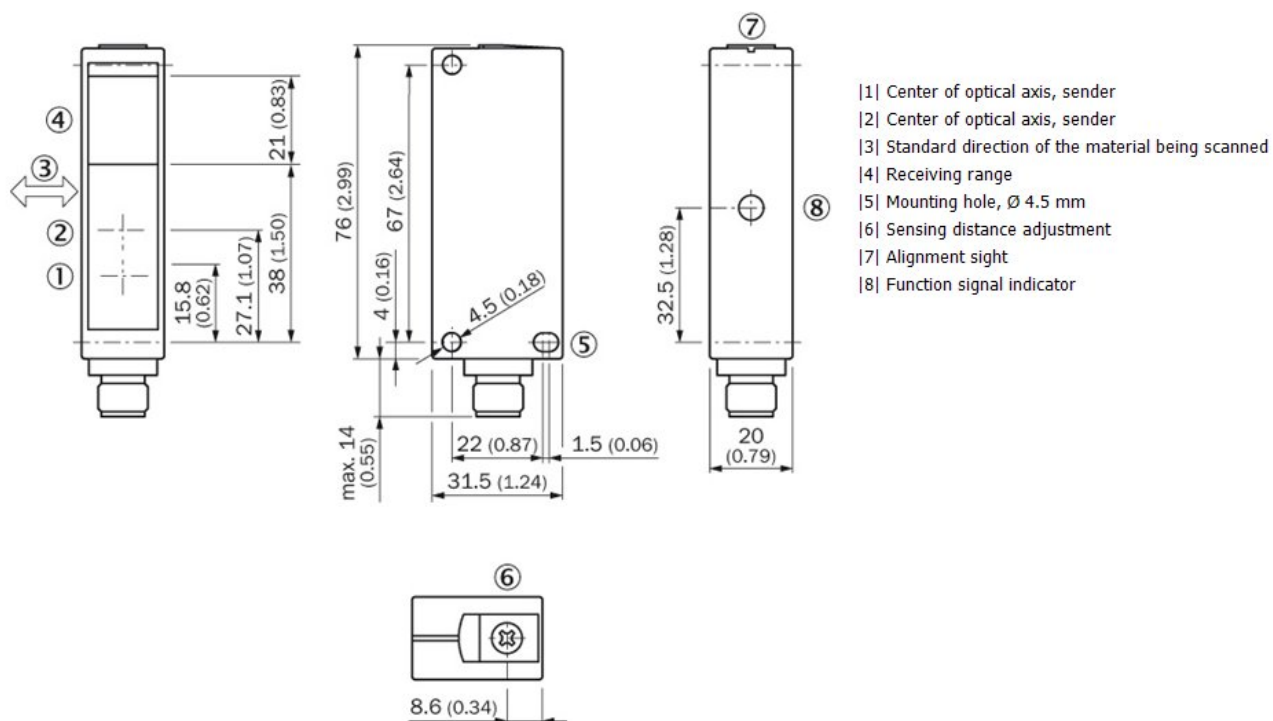
Mechanika/elektronika

Napięcie zasilania:	10 V DC ... 30 V DC ¹⁾
Tętnienia resztkowe:	< 5 Vss ²⁾
Pobór prądu:	30 mA ³⁾
Wyjście przełączające:	PNP, przełączanie jasno/ciemno, wybierane
Output current I _{max} ..:	100 mA
Czas reakcji:	< 2.000 µs ⁴⁾
Switching frequency:	250 Hz ⁵⁾
Sposób przyłączenia:	Connector M12, 4-pin

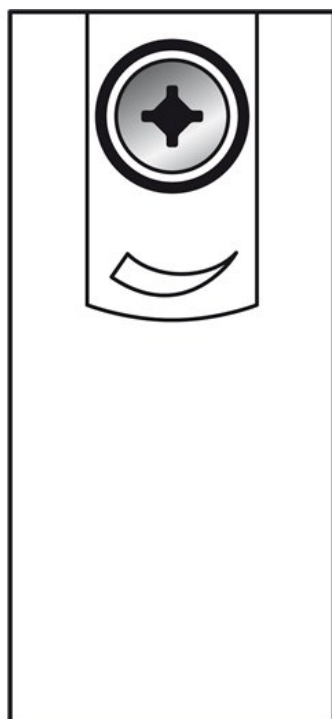
Układ zabezpieczenia:::	A, C, D ^{6) 7) 8)}
Ciężar:	60 g
Tworzywo, obudowa:	ABS
Tworzywo, układ optyczny:	PMMA
Rodzaj zabezpieczenia:	IP 67
Funkcje specjalne:	V-optics
Ambient operating temperature:	-25 °C ... 75 °C
Ambient storage temperature:	-25 °C ... 60 °C

1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of V_S ³⁾ Without load ⁴⁾ Signal transit time with resistive load ⁵⁾ With light/dark ratio 1:1 ⁶⁾ A = V_S connections reverse-polarity protected ⁷⁾ C = interference suppression ⁸⁾ D = outputs overcurrent and short-circuit protected

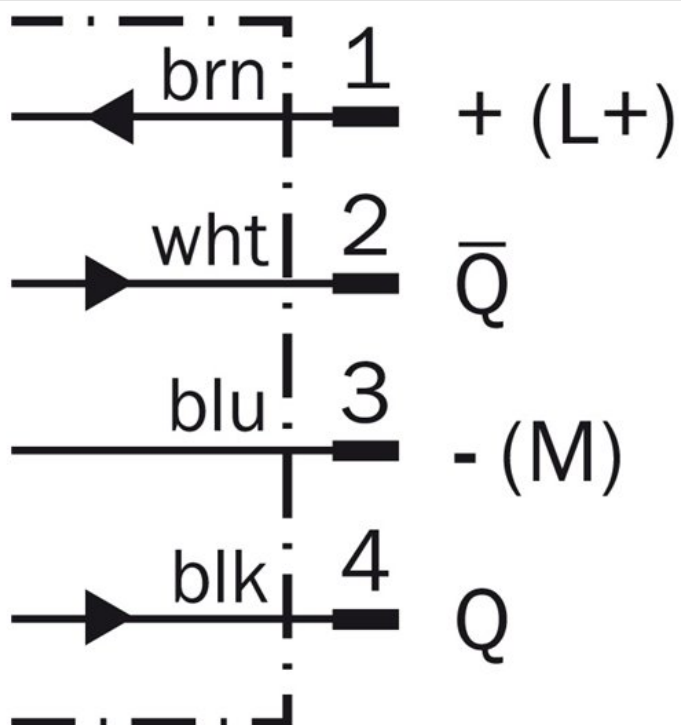
Dimensional drawing



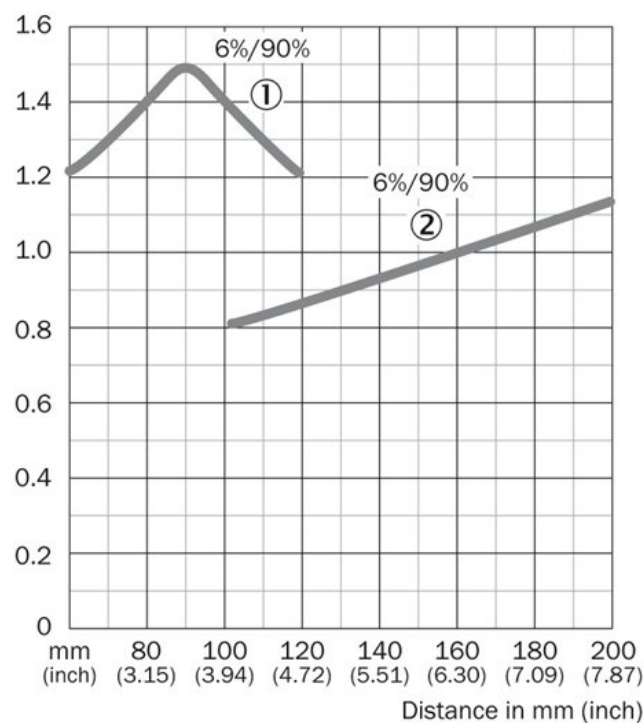
Adjustments possible



Connection diagram

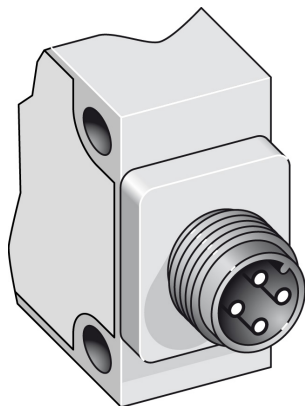


Characteristic curve



- |1| Object with 6 % remission
(based on black) with WTV18-2P410
- |2| Object with 6 % remission
(based on black) with WTV18-2P420

Connection type



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com