



WTV4-3P2271

MultiV

MULTITASK PHOTOELECTRIC SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
WTV4-3P2271	1046644

Other models and accessories → www.sick.com/MultiV

Detailed technical data

Features

Sensor/ detection principle	Photoelectric proximity sensor, Background suppression
Dimensions (W x H x D)	16 mm x 39.5 mm x 12 mm
Housing design (light emission)	Rectangular
Sensing range max.	3 mm ... 50 mm ¹⁾
Sensing range	5 mm ... 50 mm ¹⁾
Type of light	Visible red light
Light source	PinPoint LED ²⁾
Light spot size (distance)	3 mm x 20 mm (40 mm)
Wave length	650 nm
Adjustment	Potentiometer, 5 turns
AutoAdapt	✓
Special applications	Detecting perforated objects, Detecting objects with position tolerances, Detecting uneven, shiny objects, Detecting objects wrapped in film

¹⁾ Object with 90 % reflectance (referred to standard white, DIN 5033).

²⁾ Average service life: 100,000 h at T_U = +25 °C.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC ¹⁾
Ripple	< 5 V _{pp} ²⁾

¹⁾ Limit values.

²⁾ May not exceed or fall below U_v tolerances.

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.

Power consumption	20 mA ³⁾
Switching output	PNP
Output function	Complementary
Switching mode	Light switching
Output current I_{max.}	≤ 100 mA
Response time	< 0.5 ms ⁴⁾
Switching frequency	1,000 Hz ⁵⁾
Connection type	Male connector M8, 4-pin
Circuit protection	A ⁶⁾ C ⁷⁾ D ⁸⁾
Protection class	III
Weight	30 g
Housing material	Plastic, ABS
Optics material	Plastic, PMMA
Enclosure rating	IP67 IP66
Special feature	V-optics, Line-shaped light spot
Ambient operating temperature	-40 °C ... +60 °C
Ambient storage temperature	-40 °C ... +75 °C
UL File No.	NRKH.E181493 & NRKH7.E181493

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⁴⁾ Signal transit time with resistive load.

⁵⁾ With light/dark ratio 1:1.

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Safety-related parameters

MTTF_D	1,146 years
DC_{avg}	0%

Classifications

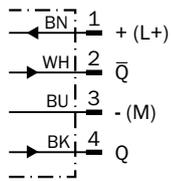
ECl@ss 5.0	27270904
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ECl@ss 6.2	27270904
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ECl@ss 8.0	27270904
ECl@ss 8.1	27270904
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ETIM 6.0	EC002719

UNSPSC 16.0901

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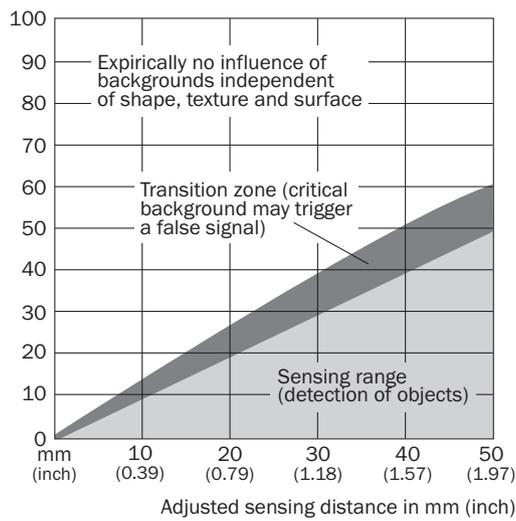
Connection diagram

Cd-083



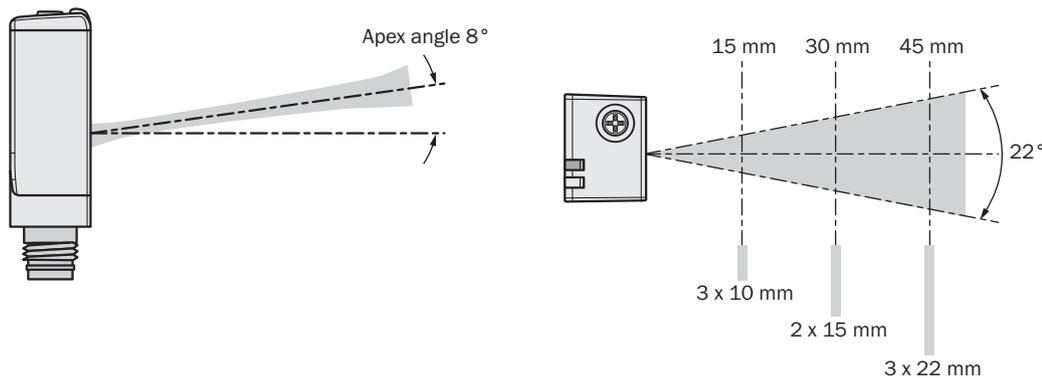
Characteristic curve

WTV4-3, V-optics, line-shaped light spot



Light spot size

WTV4-3, V-optics, line-shaped light spot



SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com