



NT8-01412

NT8

CONTRAST SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	part no.
NT8-01412	1005981

Other models and accessories → www.sick.com/NT8

Detailed technical data

Features

Housing design	Middle
Dimensions (W x H x D)	76 mm x 30 mm x 58.8 mm
Light source	White
Light emission	Long and short side of housing, exchangeable
Light spot size	1.5 mm x 3.5 mm
Light spot direction	Vertical ¹⁾
Supply voltage lamp	4,5 V ± 10%
Power consumption lamp	840 mA
Sensing distance	≤ 9 mm ²⁾
Sensing distance tolerance	± 2 mm
Adjustment	Potentiometer
Function	Light/dark switching
Special features	S1

¹⁾ In relation to long side of housing.

²⁾ From leading edge of lens.

Electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 5 V _{pp}
Current consumption	< 50 mA ¹⁾
Switching frequency	10 kHz ²⁾
Response time	> 50 μs
Switching output	NPN

¹⁾ Without load.

²⁾ With light/dark ratio 1:1.

³⁾ Reference voltage DC 50 V.

Switching output (voltage)	NPN: HIGH = approx. U_V / LOW ≤ 2 V
Output current I_{max}	200 mA
Time delay	None
Protection class	II ³⁾
Circuit protection	U_V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Connection type	Cable with male connector, 2 m

¹⁾ Without load.

²⁾ With light/dark ratio 1:1.

³⁾ Reference voltage DC 50 V.

Mechanics

Housing material	Zinc diecast
Weight	300 g

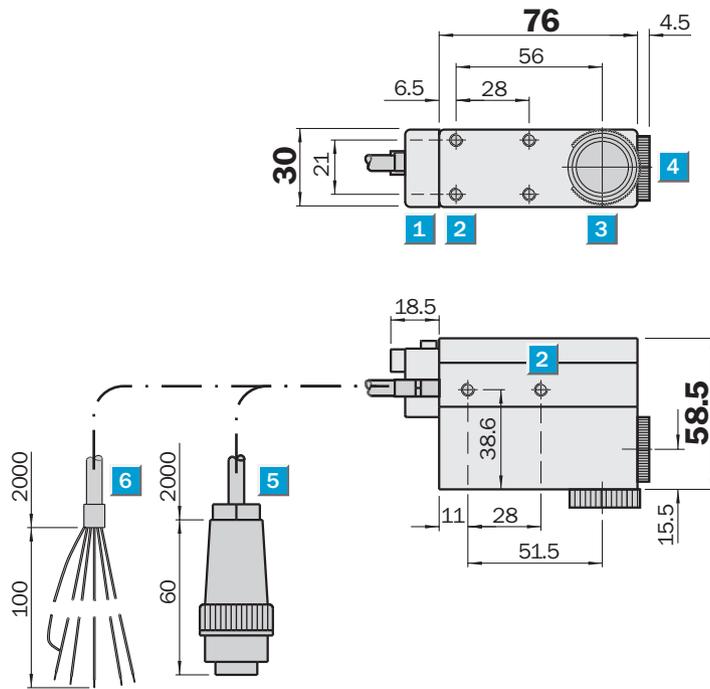
Ambient data

Ambient operating temperature	0 °C ... +55 °C
Ambient temperature, storage	-25 °C ... +85 °C
Shock load	According to IEC 60068
Enclosure rating	IP67

Classifications

ECLASS 5.0	27270906
ECLASS 5.1.4	27270906
ECLASS 6.0	27270906
ECLASS 6.2	27270906
ECLASS 7.0	27270906
ECLASS 8.0	27270906
ECLASS 8.1	27270906
ECLASS 9.0	27270906
ECLASS 10.0	27270906
ECLASS 11.0	27270906
ECLASS 12.0	27270906
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC 16.0901	39121528

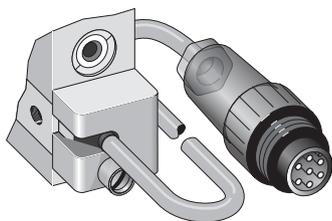
Dimensional drawing



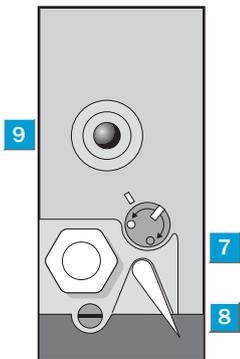
Dimensions in mm (inch)

- ① cover for adjuster
- ② M5 threaded mounting hole, 5.5 mm deep
- ③ desiccant cartridge with inspection window, can be swapped with item 4
- ④ Lens (light transmission), can be exchanged for pos. 3
- ⑤ 2 m cable with male connector, 6-pin + PE
- ⑥ 2 m cable
- ⑦ Switching threshold adjustment
- ⑧ changeover switch "light/dark switching"
- ⑨ function indicator

Pinouts

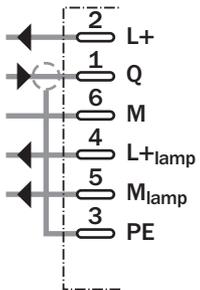


Adjustments

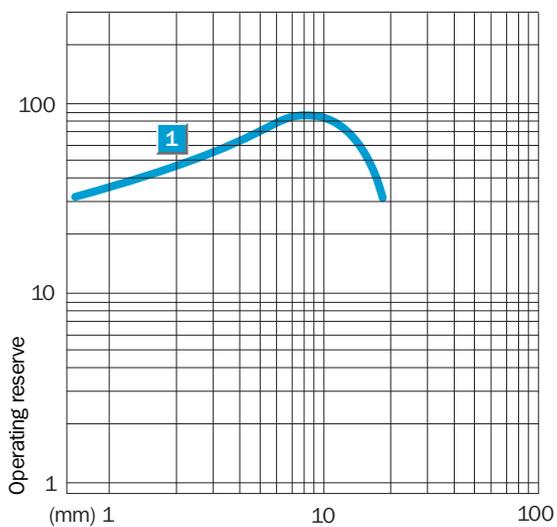


- ⑦ Switching threshold adjustment
- ⑧ changeover switch “light/dark switching”
- ⑨ function indicator

Connection diagram



Operating reserve



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