



NT6-P112

NT6

CONTRAST SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	part no.
NT6-P112	1010397

Other models and accessories → www.sick.com/NT6

Detailed technical data

Features

Housing design	Middle
Dimensions (W x H x D)	80 mm x 30.4 mm x 64 mm
Light source	LED, visible red light ¹⁾ Green
Light emission	Long and short side of housing, exchangeable
Light spot size	Ø 2.5 mm
Light spot direction	Round ²⁾
Wave length	560 nm
Pull-up/Pull-down resistor	22 k OHM ³⁾
Sensing distance	≤ 9 mm
Sensing distance tolerance	± 2 mm
Adjustment	Potentiometer

¹⁾ Average service life of 10,000 h at T_A = +25 °C.

²⁾ In relation to long side of housing.

³⁾ With light/dark ratio 1:1.

Electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 5 V _{pp}
Current consumption	< 80 mA ¹⁾
Switching frequency	5 kHz ²⁾
Response time	> 100 µs
Switching output	PNP
Switching output (voltage)	PNP: HIGH = U _V ≤ 2 V / LOW approx. 0 V

¹⁾ Without load.

²⁾ With light/dark ratio 1:1.

³⁾ RL = 10 k OHM, values from black to high gloss.

Analog output	0.15 V ... 6 V ³⁾
Output current I_{max.}	200 mA
Time delay	None
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⁾ RL= 10 k OHM, values from black to high gloss.

Mechanics

Housing material	Zinc diecast
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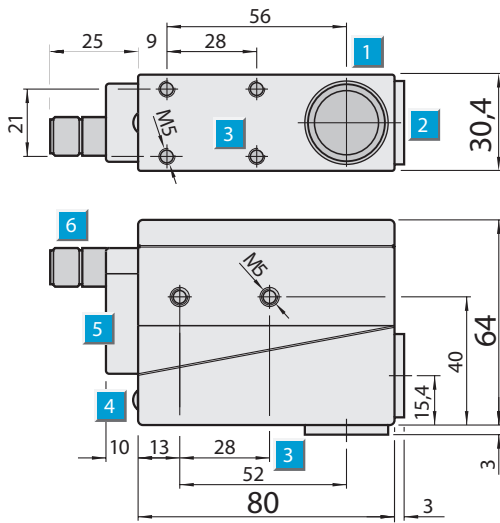
Ambient data

Ambient operating temperature	0 °C ... +50 °C
Ambient temperature, storage	-25 °C ... +75 °C
Shock load	According to IEC 60068
Enclosure rating	IP67

Classifications

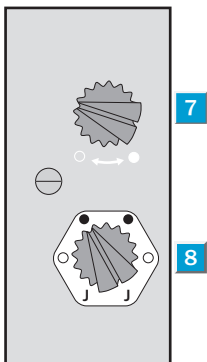
ECLASS 5.0	27270906
ECLASS 5.1.4	27270906
ECLASS 6.0	27270906
ECLASS 6.2	27270906
ECLASS 7.0	27270906
ECLASS 8.0	27270906
ECLASS 8.1	27270906
ECLASS 9.0	27270906
ECLASS 10.0	27270906
ECLASS 11.0	27270906
ECLASS 12.0	27270906
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC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

Dimensional drawing



Dimensions in mm (inch)

Adjustments



- ⑦ adjusters for switching threshold
- ⑧ adjusters for operating modes

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