

NTL6-B12 NT6

CONTRAST SENSORS





Ordering information

Туре	part no.
NTL6-B12	1008616

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

Illustration may differ

Detailed technical data

Features

Dimensions (W x H x D)	80 mm x 30.4 mm x 64 mm
Sensing distance	Dependent on the fiber-optic cable
Sensing distance tolerance	Dependent on the fiber-optic cable
Housing design	Rectangular
Light source	LED, Red ¹⁾ Infrared light
Wave length	660 nm, 880 nm
Light emission	Long and short side of housing, exchangeable
Pull-up/Pull-down resistor	22 k OHM
Adjustment	Potentiometer
Function	Light/dark switching

 $^{^{1)}}$ Average service life of 10,000 h at T $_{\!A}$ = +25 °C.

Electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 5 V _{pp} ¹⁾
Current consumption	< 80 mA ²⁾
Switching frequency	10 kHz ³⁾
Response time	> 50 µs
Switching output	Push-pull: PNP/NPN
Switching output (voltage)	B: HIGH = Uv - < 2 V / LOW = < 2 V
Analog output	0.15 V 6 V ⁴⁾
Output current I _{max.}	200 mA

 $^{^{1)}}$ May not fall below or exceed U_{V} tolerances.

²⁾ Without load.

³⁾ With light/dark ratio 1:1.

⁴⁾ Internal resistor 10 k OHM.

Time delay	None
Circuit protection	U _V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression

 $^{^{1)}\,\}mbox{May}$ not fall below or exceed $\mbox{U}_{\mbox{\sc V}}$ tolerances.

Mechanics

Housing material	Zinc diecast
Connection type	Cable with male connector, 2 m ¹⁾

¹⁾ Do not bend below 0 °C.

Ambient data

Ambient operating temperature	0 °C +50 °C
Ambient temperature, storage	-25 °C +75 °C
Enclosure rating	IP67

Classifications

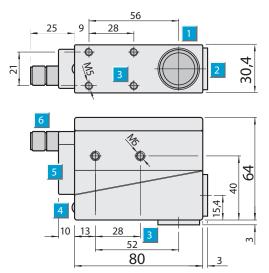
ECLASS 5.0	27270906
ECLASS 5.1.4	27270906
ECLASS 6.0	27270906
ECLASS 6.2	27270906
ECLASS 7.0	27270906
ECLASS 8.0	27270906
ECLASS 8.1	27270906
ECLASS 9.0	27270906
ECLASS 10.0	27270906
ECLASS 11.0	27270906
ECLASS 12.0	27270906
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC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

²⁾ Without load.

³⁾ With light/dark ratio 1:1.

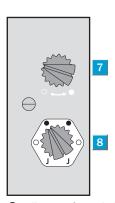
⁴⁾ Internal resistor 10 k OHM.

Dimensional drawing



Dimensions in mm (inch)

Adjustments



- $\ensuremath{{\ensuremath{\bigcirc}}}$ adjusters for switching threshold
- ® adjusters for operating modes

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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.

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