



# NTL6-B18

NT6

CONTRAST SENSORS

**SICK**  
Sensor Intelligence.



Illustration may differ

## Ordering information

Type	part no.
NTL6-B18	1009754

Other models and accessories → [www.sick.com/NT6](http://www.sick.com/NT6)

## Detailed technical data

### Features

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

<sup>1)</sup> Average service life of 10,000 h at T<sub>A</sub> = +25 °C.

### Electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Ripple</b>	≤ 5 V <sub>pp</sub> <sup>1)</sup>
<b>Current consumption</b>	< 80 mA <sup>2)</sup>
<b>Switching frequency</b>	10 kHz <sup>3)</sup>
<b>Response time</b>	> 50 μs
<b>Switching output</b>	PNP NPN
<b>Switching output (voltage)</b>	B: HIGH = U <sub>v</sub> - < 2 V / LOW = < 2 V
<b>Analog output</b>	0.15 V ... 6 V <sup>4)</sup>

<sup>1)</sup> May not fall below or exceed U<sub>y</sub> tolerances.

<sup>2)</sup> Without load.

<sup>3)</sup> With light/dark ratio 1:1.

<sup>4)</sup> Internal resistor 10 k OHM.

<b>Output current <math>I_{\max}</math>.</b>	200 mA
<b>Time delay</b>	None
<b>Circuit protection</b>	U <sub>V</sub> connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
<b>Connection type</b>	Cable, 2 m

- 1) May not fall below or exceed U<sub>V</sub> tolerances.
- 2) Without load.
- 3) With light/dark ratio 1:1.
- 4) Internal resistor 10 k OHM.

### Mechanics

<b>Housing material</b>	Zinc diecast
-------------------------	--------------

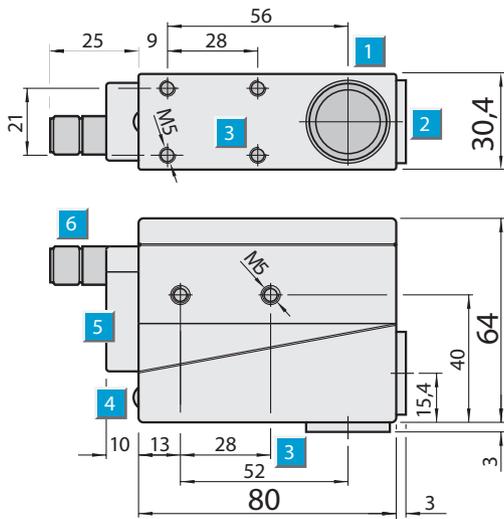
### Ambient data

<b>Ambient operating temperature</b>	0 °C ... +50 °C
<b>Ambient temperature, storage</b>	-25 °C ... +75 °C
<b>Enclosure rating</b>	IP67

### Classifications

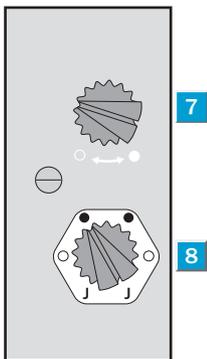
<b>ECLASS 5.0</b>	27270906
<b>ECLASS 5.1.4</b>	27270906
<b>ECLASS 6.0</b>	27270906
<b>ECLASS 6.2</b>	27270906
<b>ECLASS 7.0</b>	27270906
<b>ECLASS 8.0</b>	27270906
<b>ECLASS 8.1</b>	27270906
<b>ECLASS 9.0</b>	27270906
<b>ECLASS 10.0</b>	27270906
<b>ECLASS 11.0</b>	27270906
<b>ECLASS 12.0</b>	27270906
<b>ETIM 5.0</b>	EC001820
<b>ETIM 6.0</b>	EC001820
<b>ETIM 7.0</b>	EC001820
<b>ETIM 8.0</b>	EC001820
<b>UNSPSC 16.0901</b>	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](http://www.sick.com)