



Contrast sensors  
NT6, NTL6

NTL6-B11



**Model Name** > [NTL6-B11](#)  
**Part No.** > [1008615](#)



*Illustration may differ*

**At a glance**

- RGB, white LEDs and red lasers
- Bar graph display visually indicates contrast performance (KT5, KT10)
- High switching frequency
- Various teach-in and manual potentiometer versions to meet individual requirements
- Automatic gloss adjustment for highly reflective materials
- A range of sensing distances and light spots for numerous applications
- Tough, compact metal housing

**Your benefits**

- Able to process all packaging materials (yellow mark/white background), resulting in high machine throughput
- Reliable operation, even with jittering webs and high-gloss materials
- High positioning accuracy improves packaging quality
- Simple teach-in and highly visible light spot ensure easy setup
- Simple to integrate into machines due to compact design
- Interchangeable lenses for maximum mounting flexibility
- A range of sensing distances, light spot directions and a 90° rotatable plug enables optimal integration
- Application-specific teach-in processes provide maximum flexibility

**The product has been discontinued. Please contact your SICK sales representative for more information about a replacement product.**



**Features**

Dimensions (L x W x H):	64 mm x 80 mm x 30.4 mm
Sensing distance:	Dependent on the fiber-optic cable
Sensing distance tolerance:	Dependent on the fiber-optic cable
Light source <sup>1), 2)</sup> :	LED red, infrared
Light emission:	Long and short side of housing, exchangeable
Light spot size:	Dependent on the fiber-optic cable
Adjustment:	Manual adjustment, potentiometer
Function:	Light/dark switching
Pull-up/Pull-down resistor:	22 k OHM

1) Average service life of 10,000 h at  $T_A = +25\text{ °C}$  2) Wave length: 660 nm, 880 nm

### Mechanics/electronics

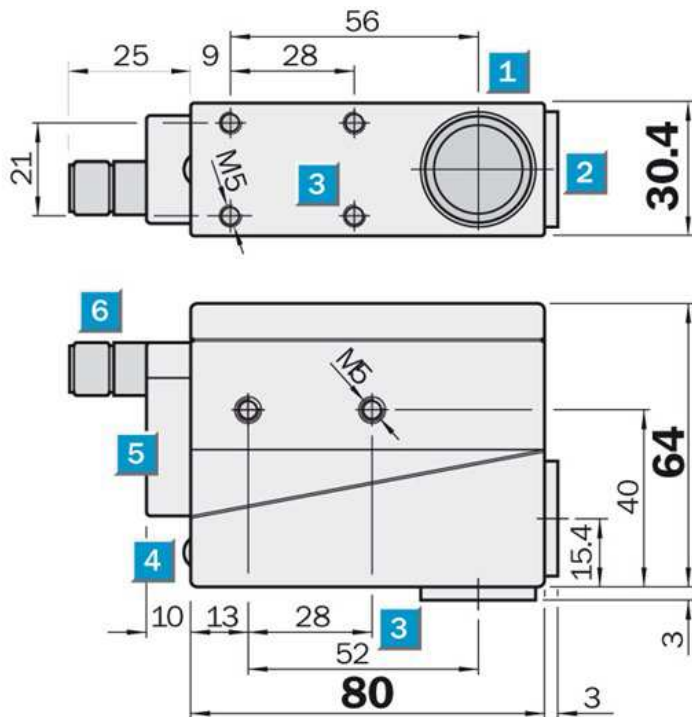
Supply voltage $V_s$ :	DC 10 V ... 30 V
Ripple <sup>1)</sup> :	$\leq 5\text{ Vpp}$
Current consumption <sup>2)</sup> :	$< 80\text{ mA}$
Switching frequency:	10 kHz
Response time:	$> 50\text{ }\mu\text{s}$
Output type:	B: HIGH = $U_v - < 2\text{ V}$ / LOW = $< 2\text{ V}$
Switching mode:	PNP NPN
Analog output QA:	$0.15\text{ V} \dots 6\text{ V}$ <sup>3)</sup>
Connection type:	2 m cable , 4 x 0.34 mm, shielded, PVC, diameter 6 mm
Circuit protection:	Output Q short-circuit protected, Interference suppression, VS connections reverse-polarity protected
Enclosure rating:	IP 67
Weight:	Approx. 540 g (with cable)
Output current $I_{max.}$ :	200 mA

1) May not exceed or fall short of  $V_s$  tolerances 2) Without load 3) Internal resistor 10 k OHM

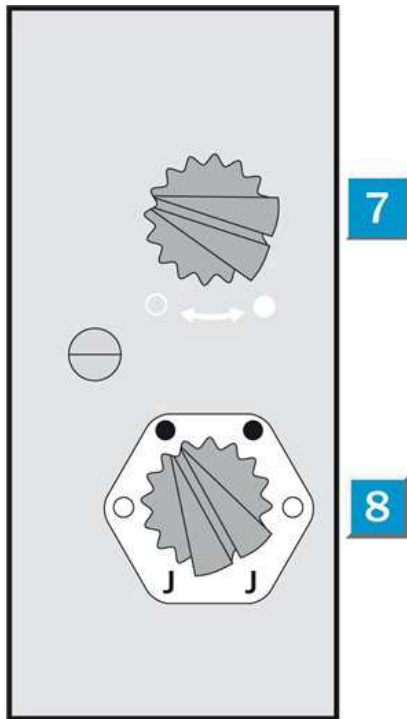
### Ambient data

Ambient temperature: Operation: 0 ... +50 °C, Storage: -25 ... +75 °C

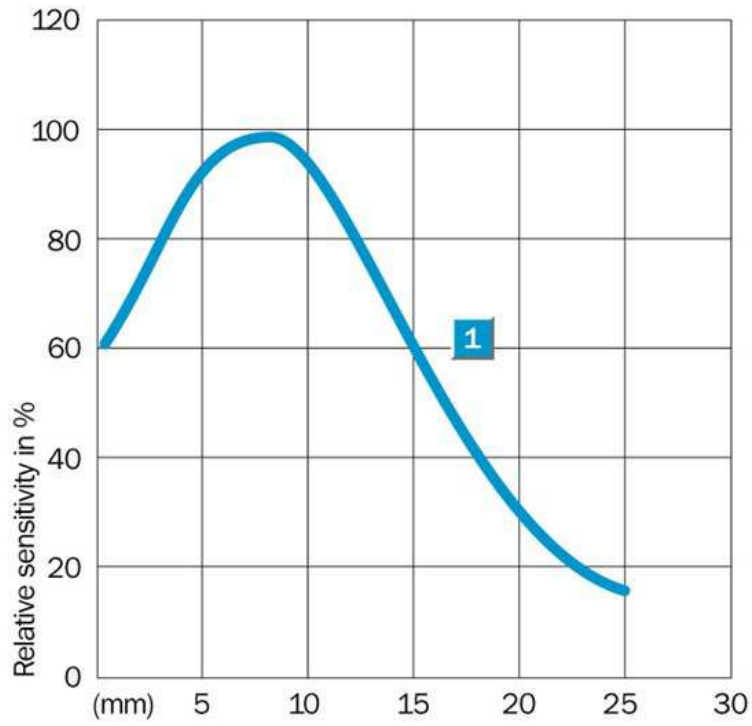
### Dimensional drawing



## Adjustments



## Characteristic curve



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