



## Contrast sensors NT6, NT6

NT6-07022



**Model Name** > [NT6-07022](#)  
**Part No.** > [1005826](#)



*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:	9 mm
Sensing distance tolerance:	± 2 mm
Light source <sup>1)</sup> :	LED red, green
Light emission:	Long and short side of housing, exchangeable
Light spot size:	1.5 mm x 4 mm (red), 1.5 mm x 5 mm (green)
Light spot direction <sup>2)</sup> :	Vertical
Adjustment:	Manual adjustment, potentiometer
Function:	Deactivation delay, 50 ms

1) Average service life of 10,000 h at  $T_A = +25\text{ °C}$  2) In relation to long side of housing

### Mechanics/electronics

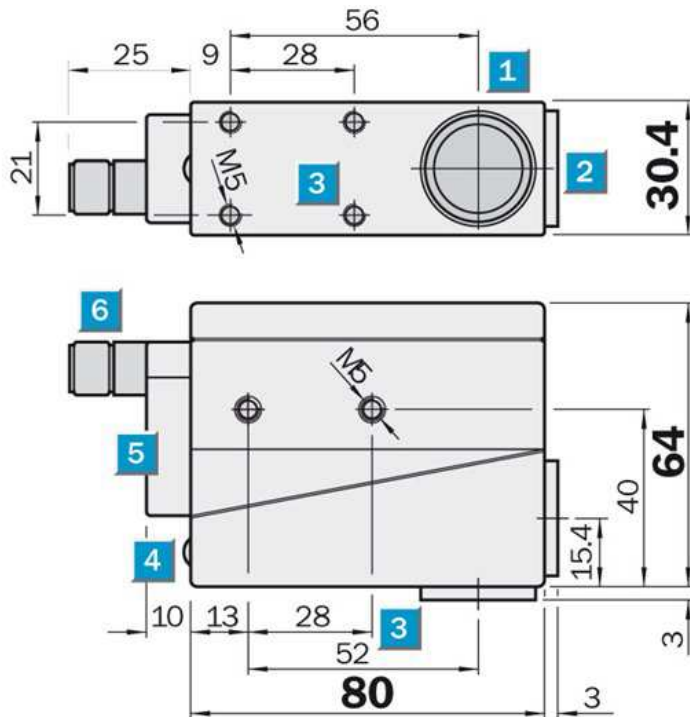
Supply voltage $V_s$ :	DC 10 V ... 30 V
Ripple:	$\leq 5\text{ Vpp}$
Current consumption <sup>1)</sup> :	$< 80\text{ mA}$
Switching frequency <sup>2)</sup> :	10 kHz
Response time <sup>3)</sup> :	$> 50\text{ }\mu\text{s}$
Output type:	PNP: HIGH = $V_s - \leq 2\text{ V}$ / LOW approx. 0 V
Analog output QA:	0.15 V ... 6 V
Connection type:	2 m cable , 4 x 0.34 mm, shielded, PVC, diameter 6 mm <sup>4)</sup>
Circuit protection:	Output Q short-circuit protected, Interference suppression, $V_s$ connections reverse-polarity protected
Enclosure rating:	IP 67
Weight:	Approx. 540 g (with cable)
Housing material:	Die-cast zinc
Output current $I_{max}$ :	200 mA

1) Without load 2) With light/dark ratio 1:1 3) Signal transit time with resistive load 4) Do not bend below 0 °C

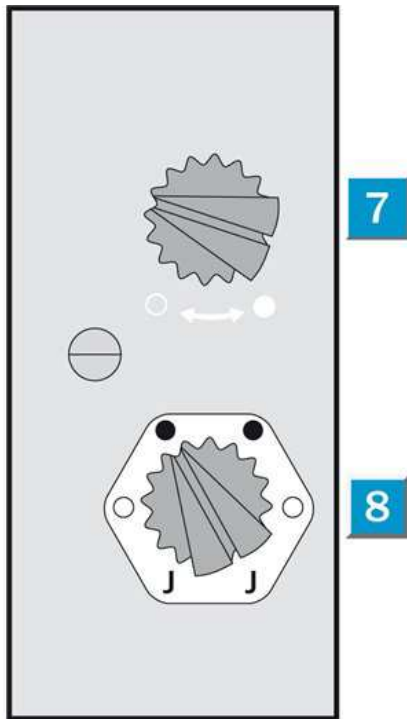
### Ambient data

Ambient temperature:	Operation: 0 ... +50 °C, Storage: -25 ... +75 °C
Shock load:	According to IEC 60068

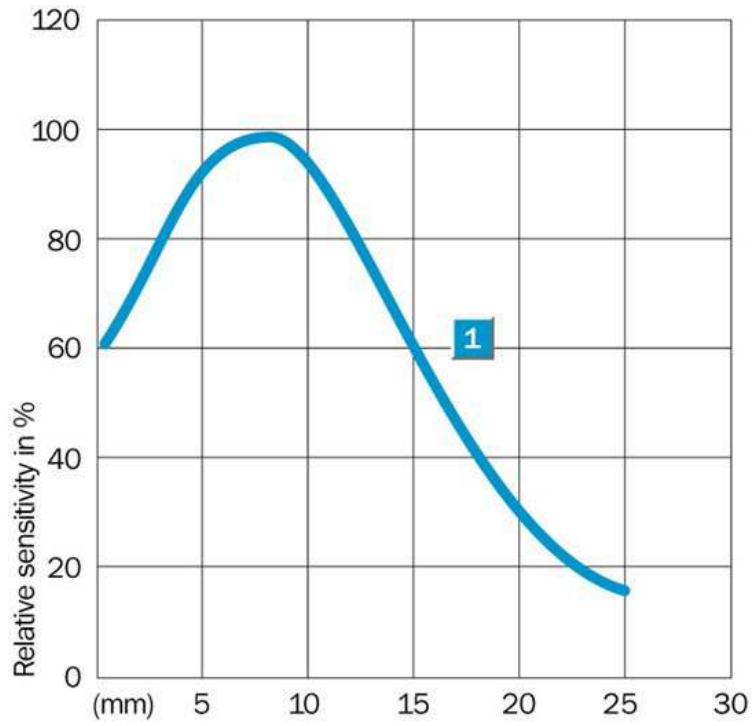
### Dimensional drawing



## Adjustments



## Characteristic curve



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