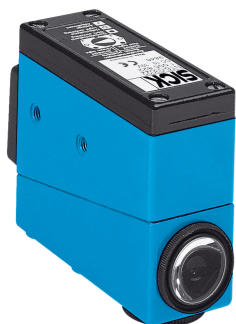


NT6

CONTRAST SENSORS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Dimensions (W x H x D)</b>	80 mm x 30.4 mm x 64 mm
<b>Sensing distance</b>	9 mm 50 mm 16 mm Dependent on the fiber-optic cable
<b>Type of light</b>	LED <sup>1)</sup> Redgreen LED <sup>1)</sup> RedInfrared light
<b>Light spot size</b>	1.5 mm x 5 mm <sup>2)</sup> Ø 2.5 mm
<b>Switching frequency</b>	10 kHz <sup>3)</sup> 5 kHz <sup>3)</sup>
<b>Response time</b>	> 50 µs <sup>4)</sup> > 100 µs <sup>4)</sup> > 50 µs
<b>Switching output</b>	NPN PNP PUSH/PULL (depending on type)
<b>Connection type</b>	Cable with male connector 2 m PVC Cable 2 m PVC Male connector M12, 4-pin Cable 8 m PVC Cable 5 m PVC Cable 4 m PVC Cable with male connector 2 m

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

<sup>2)</sup> With green light. 1.5 mm x 4 mm with red light.

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

<sup>4)</sup> Signal transit time with resistive load.

## Ordering information

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

- **Adjustment:** Potentiometer
- **Light source:** LED, Red, green (Average service life of 10,000 h at  $T_A = +25\text{ °C}$ .)

Sensing distance	Switching output	Light spot size	Connection type Detail	Light emission	Type	Part no.			
≤ 9 mm	-	1.5 mm x 5 mm <sup>1)</sup>	Cable	Long and short side of housing, exchangeable	NT6-03022	1005822			
					NT6-03025	1007167			
					NT6-04022	1006475			
					NT6-04025	1010103			
					NT6-07022	1005826			
					NT6-08022	1005830			
					NT6-08028	1028383			
					NT6-13022	1005824			
					NT6-13024	1009597			
			Cable with male connector		NT6-03012	1005821			
					NT6-04012	1006474			
					NT6-07012	1005825			
					NT6-13012	1005823			
					Male connector M12, 4-pin	NT6-03018	1006367		
						NT6-04018	1007478		
						NT6-07018	1012730		
					NPN	∅ 2.5 mm	Cable with male connector	NT6-N111	1010394
								NT6-N112	1010395
PNP	∅ 2.5 mm	Cable with male connector	NT6-P111	1010396					
			NT6-P112	1010397					
≤ 16 mm	-	1.5 mm x 5 mm <sup>1)</sup>	Cable	NT6-03042	1007308				
≤ 50 mm	-	1.5 mm x 5 mm <sup>1)</sup>	Cable	NT6-03062	1007168				

<sup>1)</sup> With green light. 1.5 mm x 4 mm with red light.

- **Adjustment:** Potentiometer
- **Light source:** LED, Red, Infrared light (Average service life of 10,000 h at  $T_A = +25\text{ °C}$ .)

Switching output	Connection type Detail	Light emission	Type	Part no.
PNP	Cable with male connector	Long and short side of housing, exchangeable	NTL6-P12	1011520
PNP, NPN	Cable		NTL6-B11	1008615
			NTL6-B18	1009754
PUSH/PULL	Cable with male connector		NTL6-B12	1008616

## 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)