



contrast sensors TL46-A-425

URL:<https://www.sxplc.com/contrast-sensors-tl46-a-425>

Product data sheet

Switching frequency 10 kHz 20 kHz

Light emission red/green LED white LED

Setting push buttons remote

Power supply Vdc 10...30 V Vac Vac/dc

Output PNP • NPN • NPN/PNP relay other 0...5 V Analog Output

Connection cable • connector • pig-tail

Approximate dimensions (mm) 31x81x58

Housing material Zama

Mechanical protection IP67

Power supply 10 ... 30 Vdc (limit values; reverse polarity protection)

Ripple 2 Vpp max.

Consumption (output current excluded) 80 mA max.

Light emission green LED 526 nm/red LED 630 nm (mod. TL μ -0/1xx) white LED 400-700 nm (mod. TL μ -4/5xx)

Setting teach-in push-buttons/remote by 2 wires, 4 settings storage cable version

Operating mode Light/Dark automatic setting with teach-in procedure

Indicators red OUTPUT LED green READY LED

Output PNP or NPN; analog output

Output current 200 mA max.

Saturation voltage 1 V max. NPN vers., 2 V max. PNP vers.

Response time 50 μ s max. (mod. TL μ -4xx) 25 μ s max. (mod. TL μ -5xx)

Switching frequency 10 kHz max. (mod. TL μ -4xx) 20 kHz max. (mod. TL μ -5xx)

Connection 3 m shielded cable \varnothing 6.1 mm, M12 4-pole connector

Dielectric strength 500 Vac, 1 min between electronics and housing

Insulating resistance >20 M Ω , 500 Vdc between electronics and housing

Electrical protection class 1

Mechanical protection IP67

Ambient light rejection according to EN 60947-5-2 Vibrations 0,5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)

Shock resistance 11 ms (30 G) 6 shock for every axis (EN60068-2-27) Minimum spot dimension 1,5 x 5 mm (TL μ -x1x), 2 x 7 mm (TL μ -x6x), \varnothing 3 mm (TL μ -4xx/5xx) Depth of field \pm 3 mm (TL μ -x1x/4xx/5xx) / \pm 4 mm (TL μ -x6x)

Housing material ZAMA

Lens material glass

Operating temperature -10 ... 55 °C

Storage temperature -20 ... 70 °C

Weight 450 g max. cable vers., 310 g max. connector vers.

