



Contrast sensors Product group W160T, Contrast sensors

WTM160T-E391



Model Name > [WTM160T-E391](#)
Part No. > [6021505](#)

- Vertical models
- Mark sensor
- Enclosure rating: IP 67
- Resolves ten gray levels
- LED indicator: function reserve

The product has been discontinued on 31.07.2014. Please contact your SICK sales representative for more information about a replacement product.



Product features

Sensing range min ... max:	8 mm ... 12 mm
Adjustment::	Teach-in: single teach-in button
Light source:	LED
Type of light:	Green light
Wave length:	540 nm
Light spot diameter:	Approx. 2 x 5 mm at 10 mm distance
Laser:	Green light
Sensing range max.:	8 mm ... 12 mm
Relating to:	Object with 90 % reflectance (referred to standard white, DIN 5033)

Technical data

Series:	W160T
Design:	Rectangular
Housing design:	Vertical
Dimensions (W x H x D):	11 mm x 38 mm x 23 mm
Supply voltage min ... max:	DC 10 ... 30 V ¹⁾
Ripple:	± 10 %
Power consumption:	≤ 40 mA
Switching output:	NPN: open collector: Q
Switching mode:	Light/dark switching via rotary switch
Output current max.:	100 mA
Response time:	≤ 0.2 ms
Switching frequency:	2,500 Hz
Connection type:	Connector, M8, 3-pin

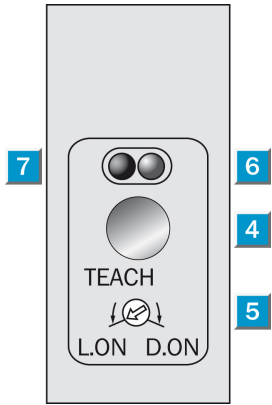
Circuit protection:	V _S connections reverse-polarity protected/In-/outputs short-circuit protected/Interference suppression/Outputs overcurrent and short-circuit protected
Enclosure rating:	IP 67: EN 60529, IP 69K: EN 40050
Ambient operation temperature, min ... max:	-25 °C ... ++55 °C
Ambient storage temperature, min ... max:	-40 °C ... ++70 °C
Weight:	Ca. 20 g
Front screen heating:	0
Polarisation filter:	0
Housing material:	PBT
Optics material:	PMMA
Signal voltage NPN HIGH/LOW:	Approx. V _S / < 1.8 V
UL File No.:	NRNT2.E128350 & NRNT8.E128350

1) Limit values, reverse-polarity protected, operation in short-circuit protected network: max. 8 A

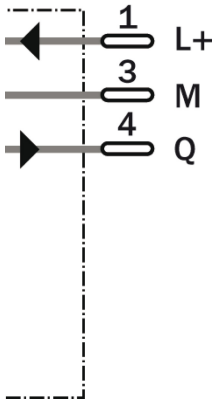
Masszeichnung

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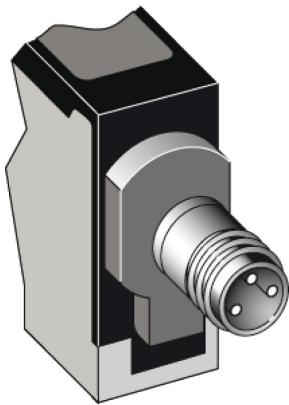
Einstell-Möglichkeiten



Anschluss-Schema



Anschlussart



Schaltabstand-Diagramm

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