

Contrast and mark detection

FT 20 WT White light contrast sensor



Features

- Resolution of 30 contrast levels
- Small rectangular light spot (< 1.5 x 4 mm)
- Scanning distance 17 mm
- Depth of focus +/- 2 mm
- White light
- Switching frequency 5 kHz
- Dynamic/static/external teach-in possible
- ABS plastic casing, extremely light-weight and robust
- Good visibility of the status indicators (LEDs)
- Small size

Reliable detection of contrasts and colour marks.

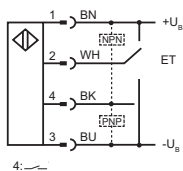
In many processes in industrial automation, marks play a major role. Therefore it's all the more important to detect them in a reliable way. For that purpose, the new contrast sensor FT 20 WT uses a white light LED. It reliably detects marks in different colours and intensities and can detect even the finest contrast differences. Particularly helpful: Thanks to its depth of focus of +/- 2 mm, the sensor is highly resistant to vibrations.

This sensor has all the advantages of the F 20 range: Compact plastic casing, teach-in operation and a comprehensive range of accessories. With dynamic teach-in, parameterization in running processes is particularly easy.

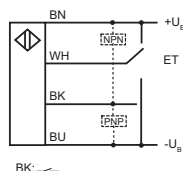
Technical data	FT 20 WT
Optical data	
Scanning distance	17 mm
Depth of focus	+/- 2 mm
Used light	white light 400 ... 600 nm
Sensitivity adjustment	dynamic/static/external teach-in
Resolution	30 contrast levels
Light spot at 17 mm	< 1.5 x 4 mm
Electrical data	
Operating voltage	10... 30V DC
Switching frequency (ti/tp 1:1)	5000 Hz
Current consumption (no load)	≤ 25 mA
Switching output	PNP/NPN
Output current	100 mA
Stability indicator	LED green
Light reception indicator	LED yellow
Protection class	□
Mechanical data	
Casing material	plastic ABS
Protection standard	IP 67
Ambient temperature range	-20 ... +60 °C
Storage temperature range	-20 ... +80 °C
Connection	plug M8 x 1
Accessory	
Cable	e.g. K4-2m-G-PUR (Art. 902-50801)

Wiring diagrams

154-00148 (plug version)

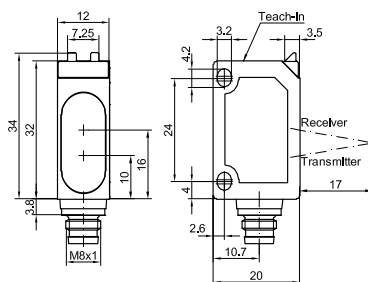


154-00148 (cable version)



Dimensional drawings

153-00348



153-00708

