



Photoelectric sensors
Through-beam photoelectric sensor, Product
group W140-2

WS/WE140-2P135

Model Name > [WS/WE140-2P135](#)
Part No. > [6024789](#)



- Polarisation filter (accessories), consequently no mutual interference when mounted in pairs
- Slotted masks (accessories) for detecting small parts or positioning jobs
- Sensitivity adjustable
- Red light as alignment aid
- LED indicator: operating reserve



Product features

Sensing range min ... max::	0 m ... 13 m, 0 m ... 16 m
Light source::	LED
Type of light:	Red light
Light spot diameter:	Approx. 650 mm at 12 m distance
Laser:	Red light
Sensing range max.:	0 m ... 13 m, 0 m ... 16 m
Sensitivity adjustment:	Potentiometer
Wave length:	680 nm

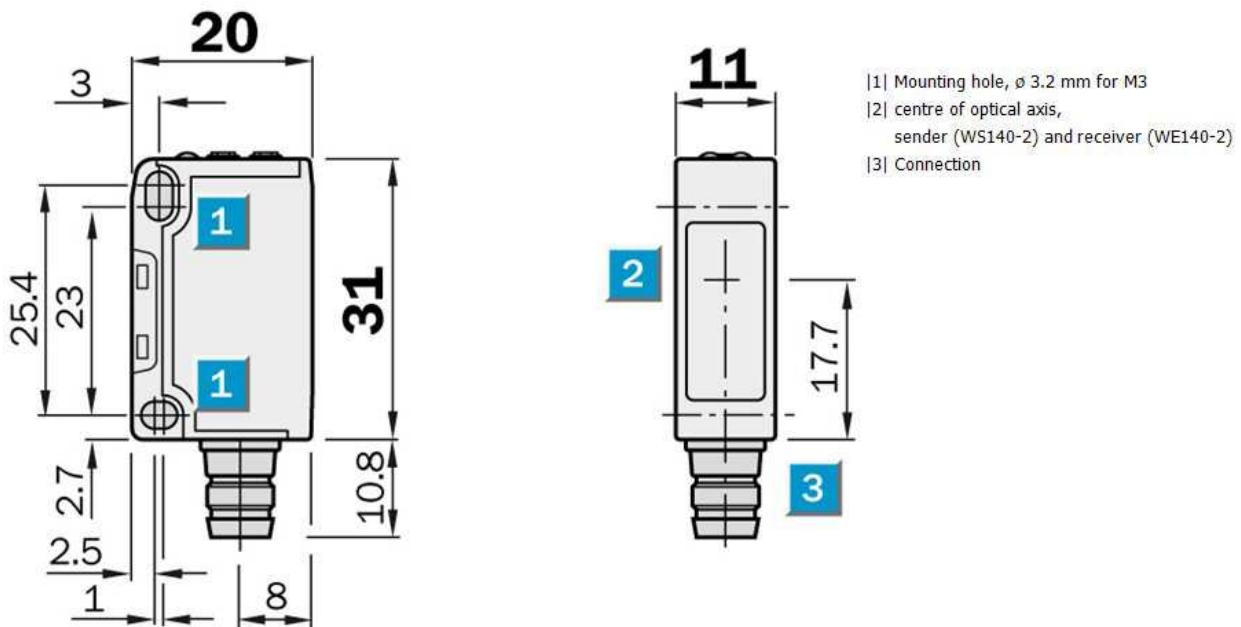
Technical data

Design::	Rectangular
Dimensions (W x H x D):	11 mm x 31 mm x 20 mm
Supply voltage min ... max.:	DC 10 ... 30 V ¹⁾
Ripple:	± 10 %
Output type:	PNP: open collector: Q
Switching mode:	Light/dark switching via rotary switch
Output current max.:	100 mA
Response time.:	≤ 0.5 ms
Switching frequency:	1,000 Hz
Connection type:	Cable, 5 m
Conductor size:	0.18 mm ²
Circuit protection:	V _S connections reverse-polarity protected/In-/outputs short-circuit protected/only WE140-2/Interference suppression/only WE140-2/Outputs overcurrent and short-circuit protected/only WE140-2
Enclosure rating.:	IP 67
Ambient operation temperature, min ... max.:	-25 °C ... +55 °C
Ambient storage temperature, min ... max.:	-40 °C ... +70 °C
Weight:	Ca. 53 g
Housing material:	PBT

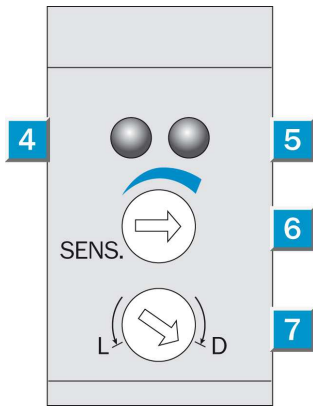
Signal voltage PNP HIGH/LOW:	Vs - 1.8 V / approx. 0 V
Angle of dispersion:	Ca. 7.6 °
Power consumption, sender:	≤ 15 mA
Power consumption, receiver:	≤ 20 mA
Series:	W140-2
Optics material:	PC
Cable diameter:	Ø 4 mm
Front screen heating:	-
Angle of reception:	Ca. 15 °
Polarisation filter:	-
Cable material:	PVC
UL File No.:	NRNT2.E128350 & NRNT8.E128350

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

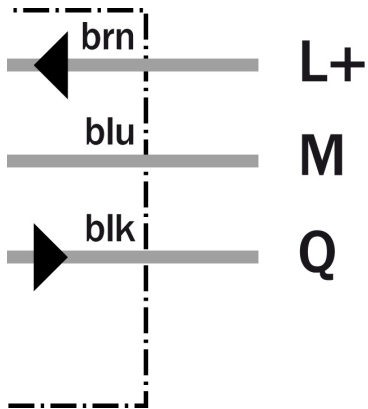
Masszeichnung



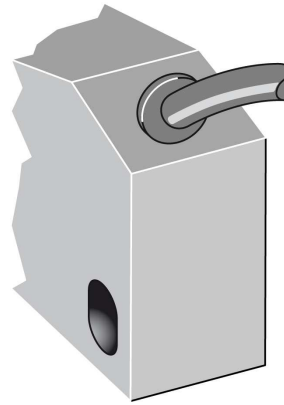
Einstell-Möglichkeiten



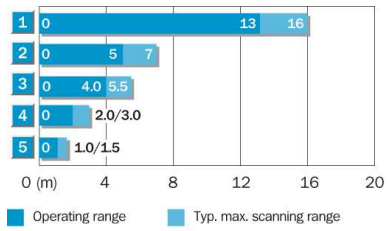
Anschluss-Schema



Anschlussart



Schaltabstand-Diagramm



Scanning range reduction when slotted masks are used

1. Without masks/polarizing filter
2. With polarizing filter tip adapter
3. With slotted mask, width 2.0 mm
4. With slotted mask, width 1.0 mm
5. With slotted mask, width 0.5 mm

Australia

Phone +61 3 9457 0600
1800 33 48 02 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail marketing@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Česká republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail info@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6881000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 5309 2112
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail sales.gsg@sick.com

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886 2 2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 88 65 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 (800) 325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com