



Position finders DMP2

DMP2-P21111



Model Name > [DMP2-P21111](#)
Part No. > [1016237](#)

At a glance

- Distances between 200 mm and 2,000 mm
- 0.15 mm repeatability
- Analog output 4 mA ... 20 mA
- Relative positioning on a reflector
- Switching and analog outputs available
- 90° rotatable connector
- Field of view $\pm 10^\circ$ in each direction
- Easy alignment

Your benefits

- Increased productivity due to automated storage and retrieval processes
- Highest reliability in storage and retrieval applications due to relative positioning, which automatically compensates for mechanical rack deviations
- Increased positioning accuracy - relative positioning eliminates temperature-dependent deviations
- Improved process quality and positioning accuracy - sensor compensates for travel inconsistencies in storage and retrieval units
- Fast commissioning and setup due to easy teach-in procedure



Performance

Target:	Reflector
Repeatability ¹⁾ :	0.15 mm
Working distance:	200 mm ... 500 mm (PL22), 500 mm ... 1,200 mm (PL50A), 500 mm ... 2,000 mm (PL80A)
Response time:	3 ms
Switching frequency:	250 Hz
Light source:	LED, red
Sensing angle ²⁾ :	$\pm 10^\circ$
Operating mode:	Choice of continuous or triggered

¹⁾ At 300 mm scanning distance ²⁾ In all axis perpendicular to the reflector (PL22, PL50A, PL80A)

Interfaces

Blanking input AT:	Blanked (triggered): PNP: > 18 V ... > U _v max. Free running: PNP: < 2 V or free running
Output type:	5 x PNP ¹⁾

1) PNP: HIGH = $V_S - \leq 2 \text{ V}$ / LOW = $\leq 2 \text{ V}$

Mechanics/electronics

Supply voltage V_S :	DC 18 V ... 30 V ¹⁾
Ripple ²⁾ :	< 5 Vpp
Connection type:	Connector M12, 8-pin
Weight:	990 g ³⁾
Power consumption:	< 250 mA ⁴⁾
Output current I_A :	$\leq 100 \text{ mA}$

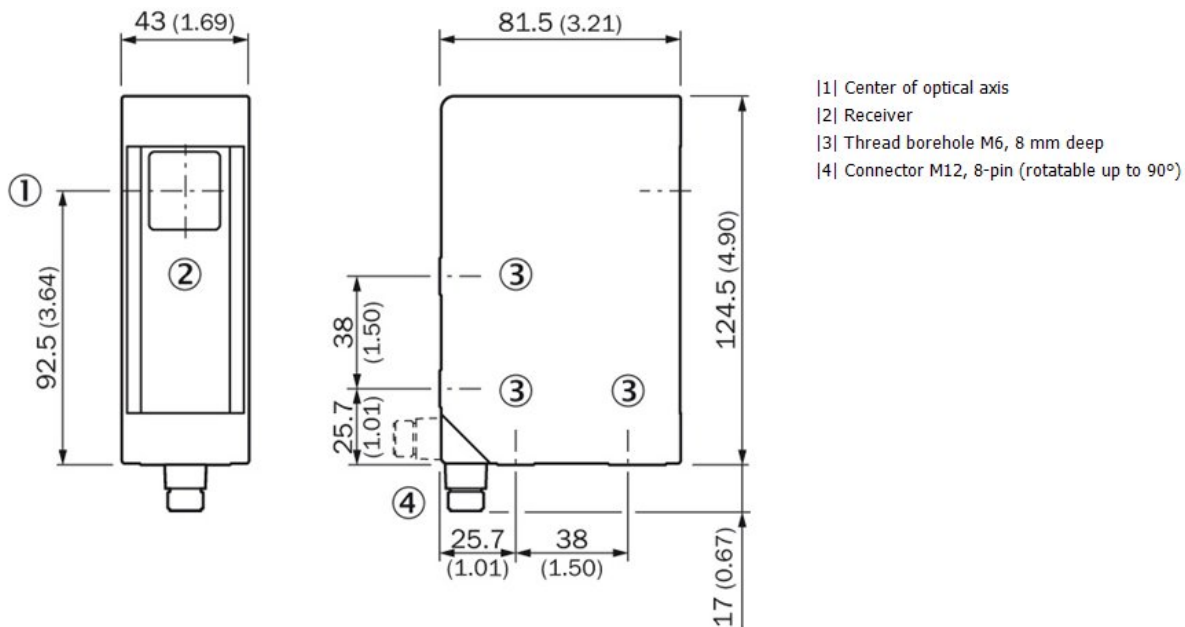
1) Limit values, reverse-polarity protected 2) May not fall short of or exceed V_S tolerances 3) Incl. cable 4) Without load

Ambient data

Enclosure rating:	IP 67
Protection class ¹⁾ :	II
Ambient temperature:	Operation: -25 ... 55 °C, Storage: -25 ... 75 °C
Vibration resistance:	According to IEC 68

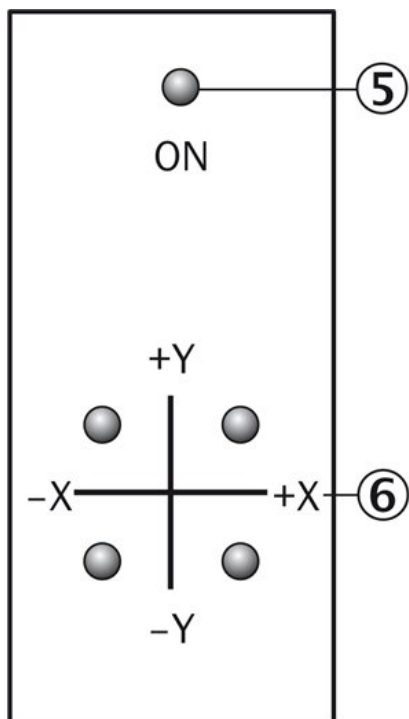
1) Reference voltage DC 50 V

Dimensional drawing



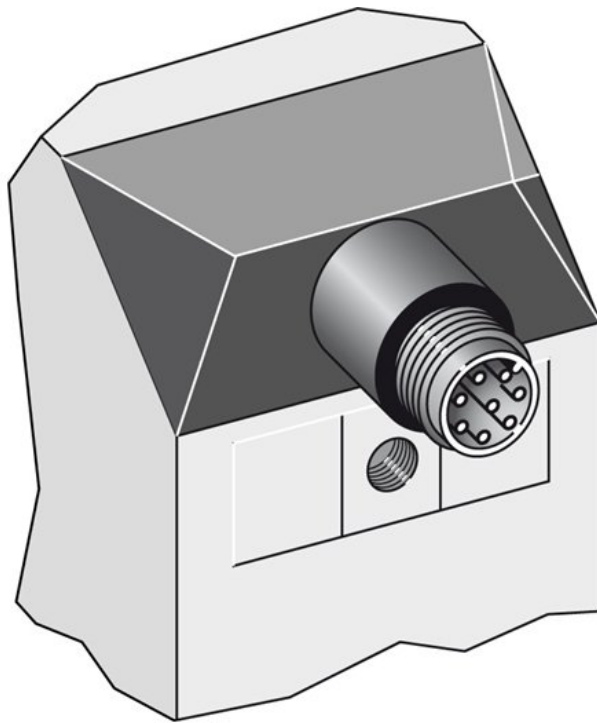
All dimensions in mm (inch)

Adjustments

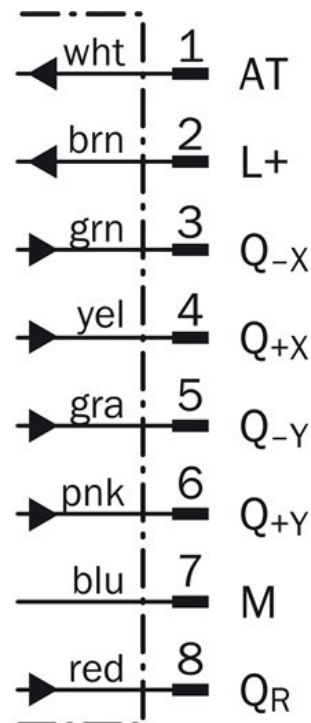


|5| Operating indicator
|6| Adjustment aid

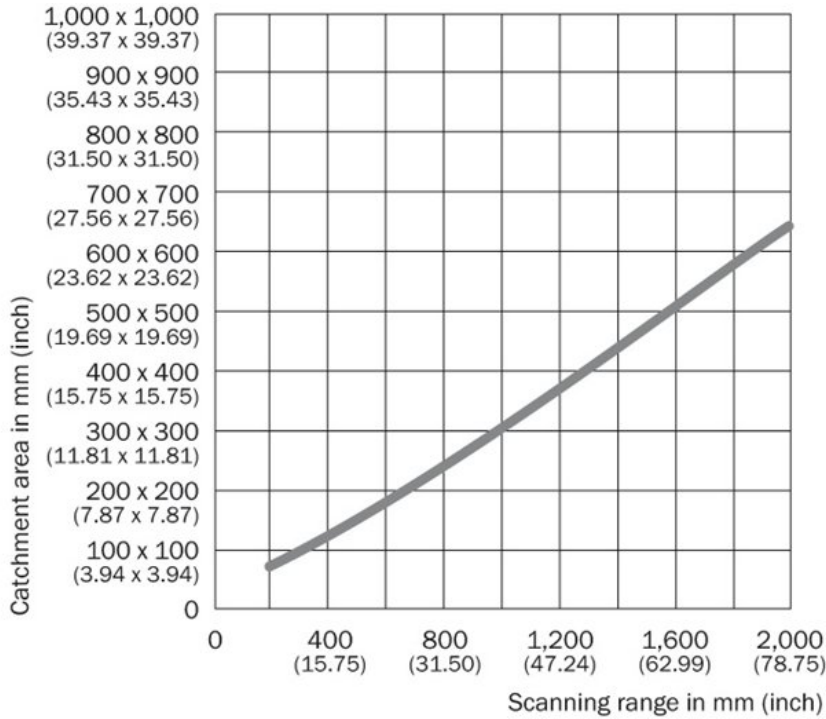
Connection type



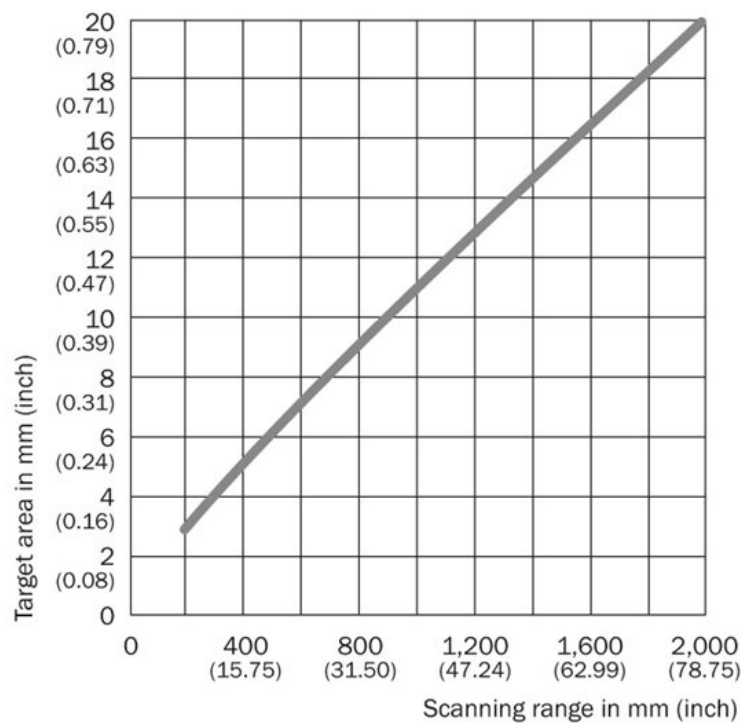
Connection diagram



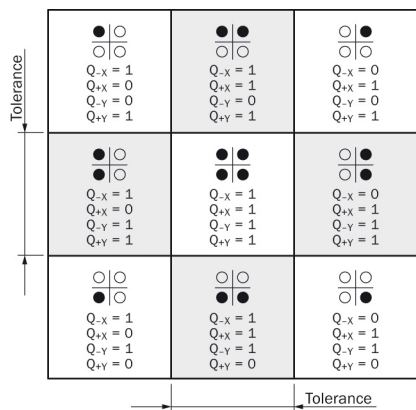
Characteristic curve: catchment area



Characteristic curve: target area



Functional principle: switching status



Australia

Phone +61 3 9457 0600
1800 334 802 – 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 sac@sick.com.br

Canada

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

Ceská 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 kundenservice@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 +972-4-6801000
E-Mail info@sick-sensors.com

Italia

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

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

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

Nederlands

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

Norge

Phone +47 67 81 50 00
E-Mail austefjord@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 admin@sicksgp.com.sg

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 8865 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