



## 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 <sup>1)</sup> :	0.15 mm
Sensing 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 <sup>2)</sup> :	$\pm 10^\circ$
Operating mode:	Choice of continuous or triggered

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

**Interfaces**

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

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

### Mechanics/electronics

Supply voltage $V_S$ :	DC 18 V ... 30 V <sup>1)</sup>
Ripple <sup>2)</sup> :	< 5 Vpp
Connection type:	Male connector M12, 8-pin
Weight:	990 g <sup>3)</sup>
Current consumption:	< 250 mA <sup>4)</sup>
Output current $I_A$ :	$\leq 100$ mA

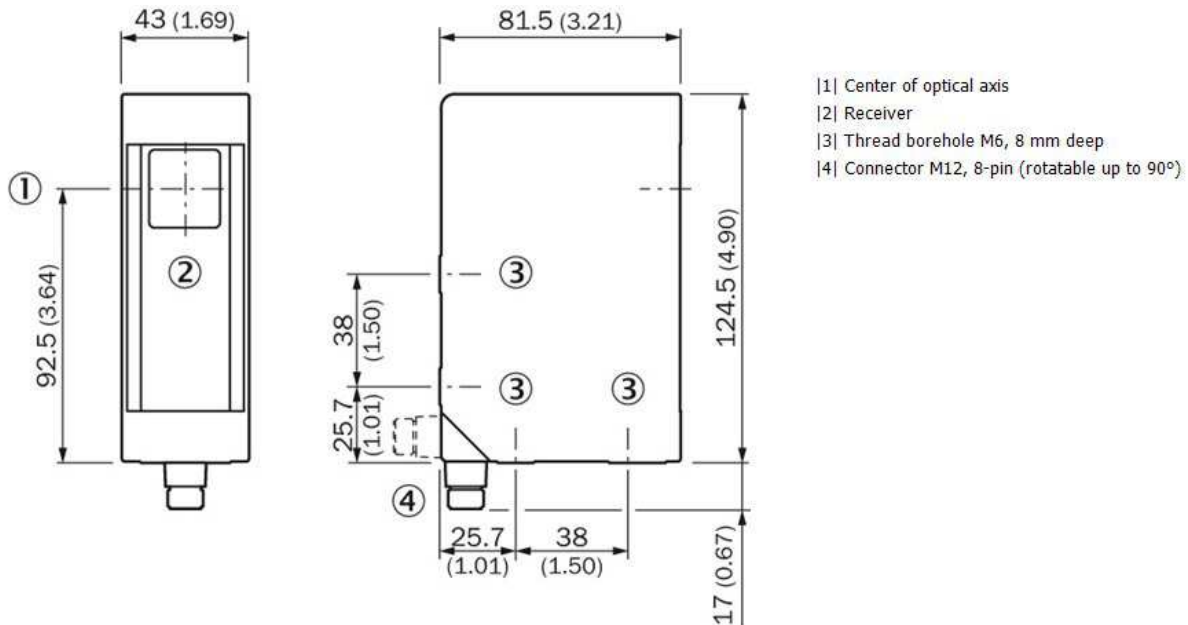
1) Limit values, reverse-polarity protected 2) May not fall short of or exceed  $V_S$  tolerances 3) Incl. cable 4) Without load

### Ambient data

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

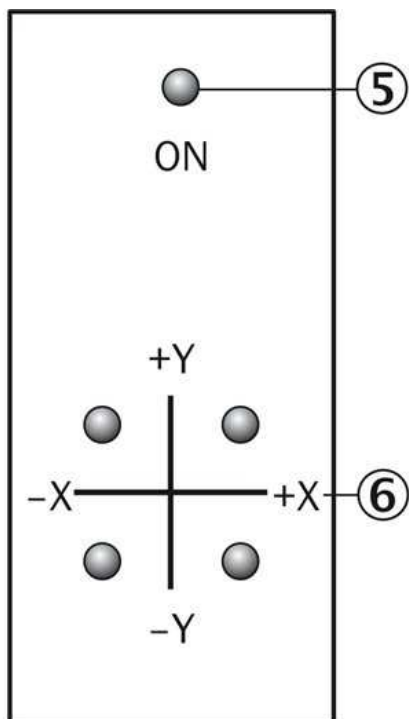
1) Reference voltage DC 50 V

### Dimensional drawing



All dimensions in mm (inch)

## Adjustments

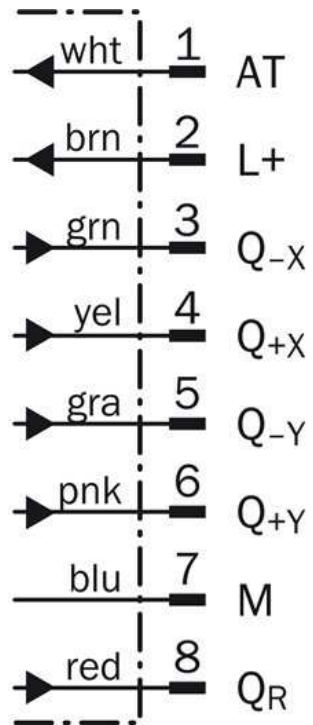


- |5| Operating indicator
- |6| Adjustment aid

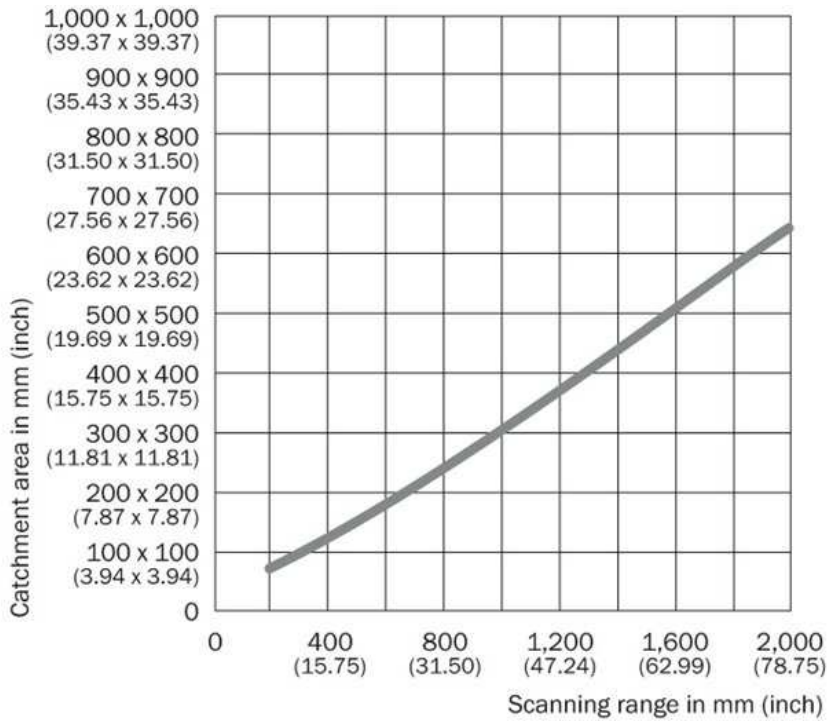
## Connection type



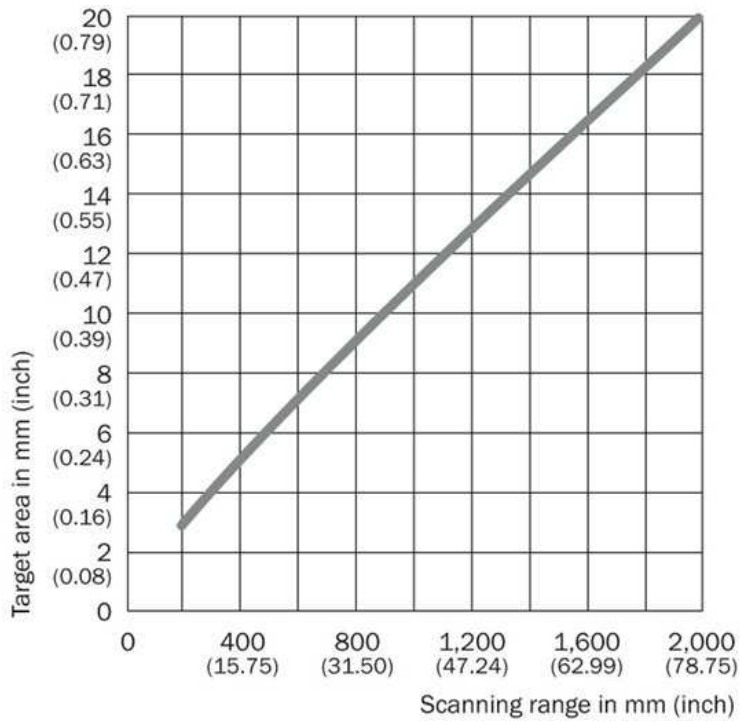
Connection diagram



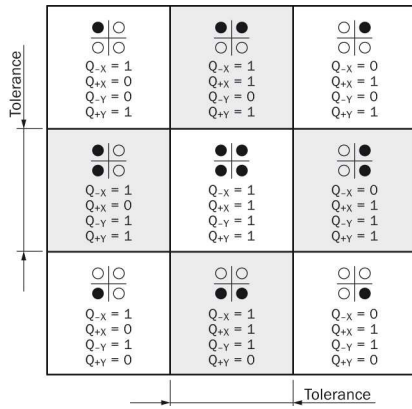
Characteristic curve: catchment area



**Characteristic curve: target area**



**Functional principle: switching status**



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