



## Position finders DMP2

DMP2-N11111



**Model Name** > **DMP2-N11111**  
**Part No.** > **1016236**



**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 ± 10° 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> :	± 10 °
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): NPN: 0V ... Uv - (≥ 18 V) Free running: NPN: Uv- (≤ 2 V) or free running
Output type:	2 x NPN <sup>1)</sup>

Analog output: 2 x 4 mA ... 20 mA (700 Ω), 2 x QA <sup>2)</sup>

<sup>1)</sup> NPN: HIGH =  $\leq 2 \text{ V}$  / LOW =  $V_S$  <sup>2)</sup> Within detection area 4 mA ... 20 mA, outside detection area 3 mA

### 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  $I_A$ :  $\leq 100 \text{ mA}$

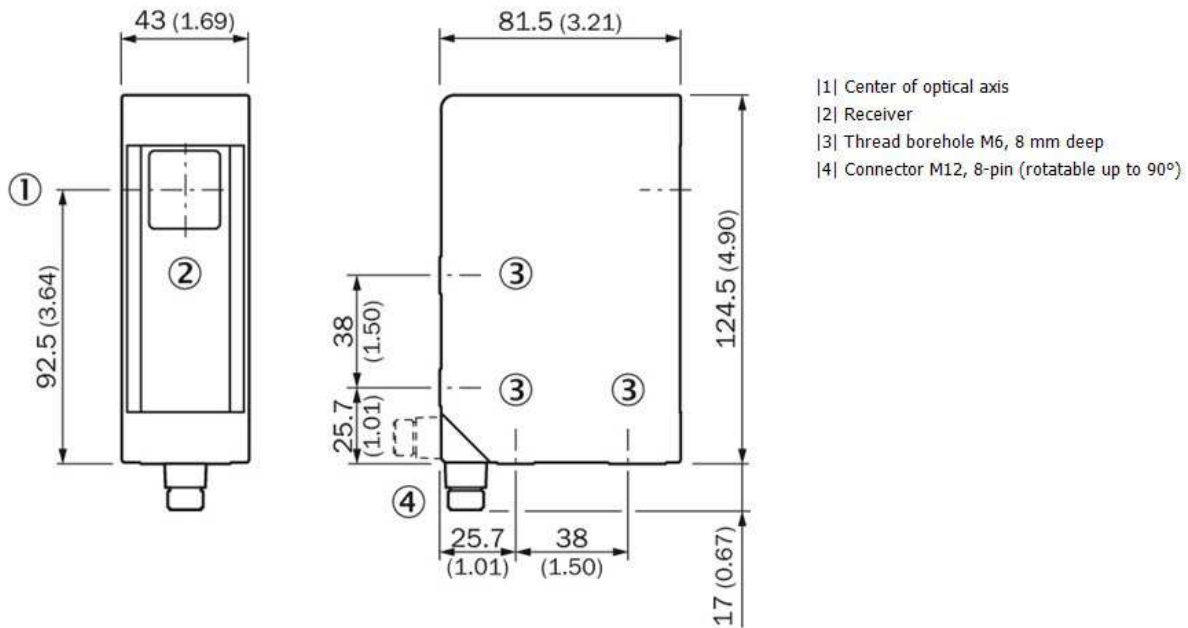
<sup>1)</sup> Limit values, reverse-polarity protected <sup>2)</sup> May not fall short of or exceed  $V_S$  tolerances <sup>3)</sup> Incl. cable <sup>4)</sup> Without load

### 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

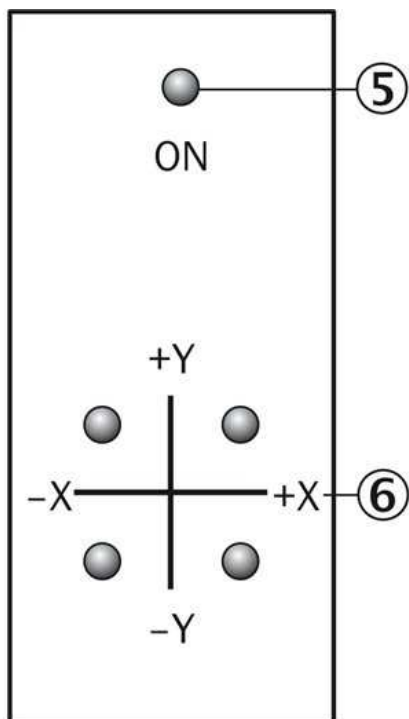
<sup>1)</sup> Reference voltage DC 50 V

### Dimensional drawing



All dimensions in mm (inch)

## Adjustments

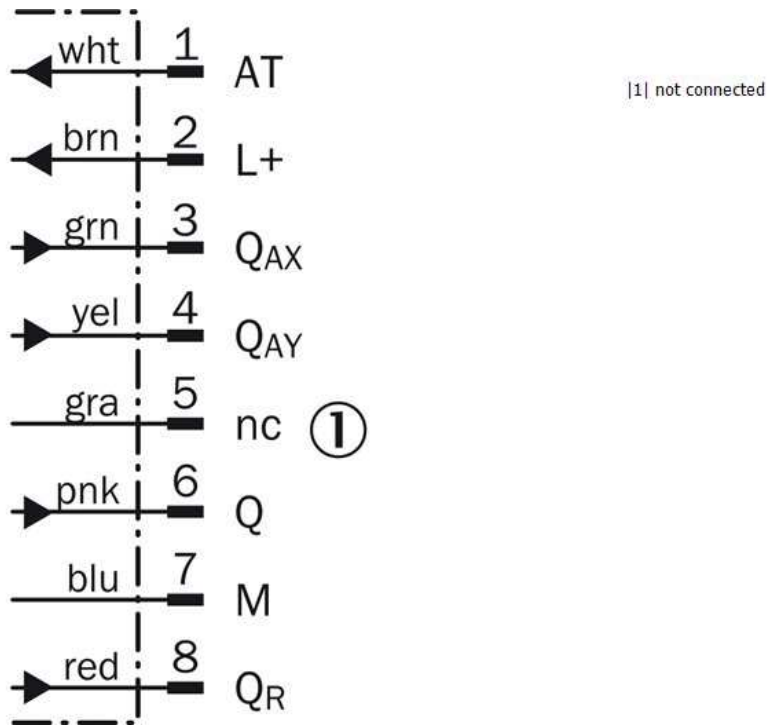


- |5| Operating indicator
- |6| Adjustment aid

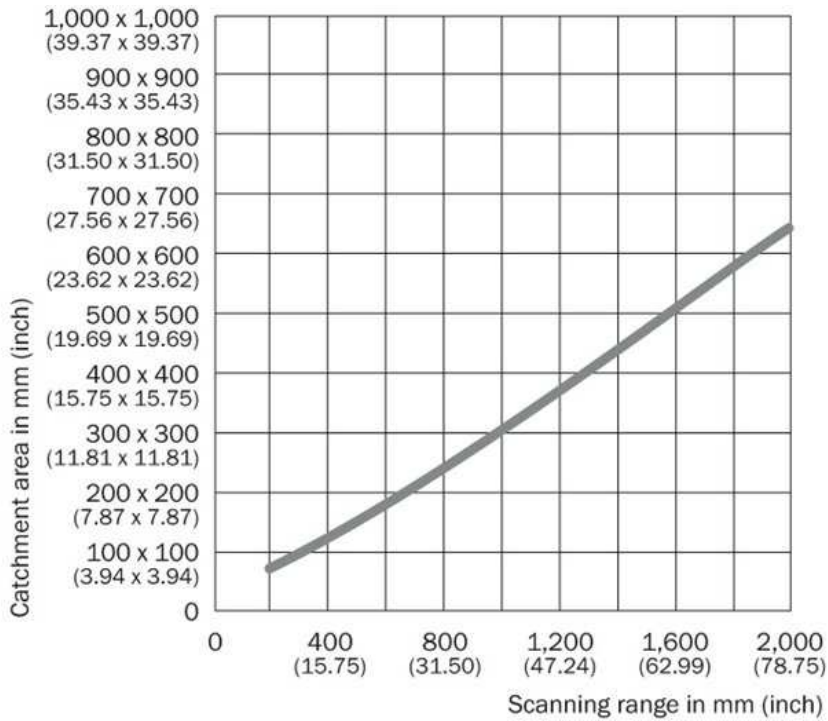
## Connection type



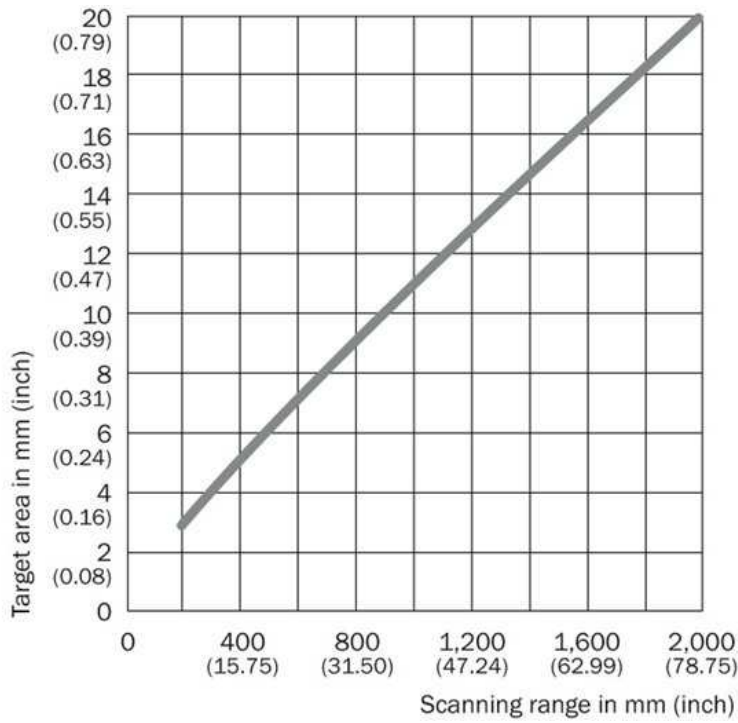
Connection diagram



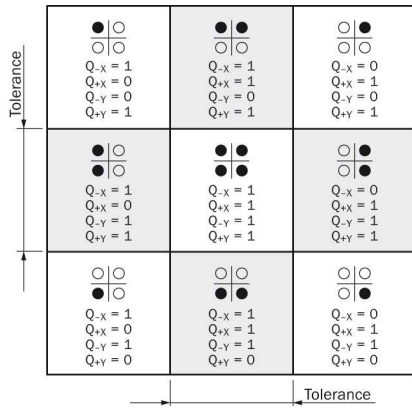
Characteristic curve: catchment area



**Characteristic curve: target area**



**Functional principle: switching status**



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