Safe protection zone monitoring, even for robotics applications: PSENradar and PNOZmulti 2

Safe radar systems

The new radar sensor PSEN rd1.2 and the new analysis unit PSEN rd1.x I/O PN are now available for safe protection zone monitoring in rugged application conditions. Thanks to the high safety category Cat. 3/PL d, not only outdoor applications and areas in wood and metal processing are safeguarded, but now also robot applications. With the new self-teaching background function, changes can now be made within the warning or protection zone during operation without requiring a new configuration.

The safe radar system together with

PNOZmulti 2 offers a safe complete

solution for protection zone monitor-

ing - including conformity assess-

ment. Additional interfaces such as

Ethernet and PROFIsafe also enable

simple use, e.g. in retrofit applications.

the configurable safe small controllers







Steam



Your benefits at a glance

- High safety category Cat. 3/PL d enables safeguarding of robotic applications
- High flexibility thanks to optimised sensor alignment and individual protection zone configuration
- > Openness for retrofit applications thanks to additional interfaces
- Insensitive to dust, dirt, rain, light, flying sparks, steam and vibrations
- Protection against encroachment from behind: To prevent the machine restarting when there are people in the danger zone









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	Туре	Common features	Order number
PSEN rd1.x I/O PN analysing unit	PSEN rd1.x I/O PN analysing unit	 Series connection: up to 6 sensors Zone sets: up to 32 OSSD outputs: up to 4 Reaction time: max. 100 ms Connection type: Ethernet, PROFIsafe Dimensions (H x W x D) in mm: 103 x 105 x 58 	6B000001
PSEN rd1.1 sensor	PSEN rd1.1 sensor	 Opening angle: 110° horizontal, 30° vertical (wide) or 50° horizontal, 15° vertical (narrow) Operating range: 4 m Frequency: 24 GHz Protection type: IP67 Can be used in applications up to SIL 2(IEC 61508), PL d (EN ISO 13849-1), category 3 if 2 sensors are used Dimensions (H x W x D) in mm: 125 x 165 x 53 	6B000002
PSEN rd1.2 sensor	PSEN rd1.2 sensor	 Opening angle: 20 – 100° horizontal, 20° vertical, configurable in 10° steps Operating range: 5 m Frequency: 60 GHz Protection type: IP67 For use in applications up to SIL 2 (IEC 61508) PL d (EN ISO 13849-1) Category 3 Dimensions (H x W x D) in mm: 135 x 158 x 105 	68000003
PNOZ m B0	Accessories	 PSEN rd1.1 sensor shield kit Cable/CA/M12-5AFX/A/005/XXXX/SH Cable/CA/M12-5AFX/A/010/XXXX/SH Cable/CA/M12-5AFX/A/015/XXXX/SH Cable/CA/M12-5AFX/M12-5AM/A/003/XXXX/SH Cable/CA/M12-5AFX/M12-5AM/A/005/XXXX/SH Cable/CA/M12-5AFX/M12-5AM/A/010/XXXX/SH Cable/CA/M12-5AFX/M12-5AM/A/015/XXXX/SH Cable/CA/M12-5AFX/M12-5AM/A/015/XXXX/SH Cable/CA/M12-5AFX/M12-5AM/A/015/XXXX/SH Cable/CA/M12-5AFX/M12-5AM/A/015/XXXX/SH PNOZ m B0 	6B000004 C1000044 C1000045 C1000046 C1000047 C1000048 C1000049 C1000050 C1000058 772100



Safe complete solution with safeguarding of danger zones and protection against encroachment from behind (restart interlock).

We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

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