

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

NEW

The new radar sensor PSEN rd1.2 and the new analysis unit PSEN rd1.x I/O 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.



Dust



Rain



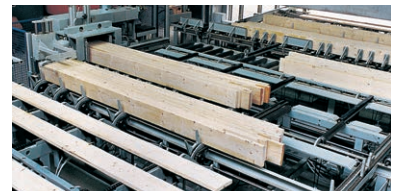
Steam

The safe radar system together with the configurable safe small controllers PNOZmulti 2 offers a safe complete solution for protection zone monitoring – including conformity assessment. Additional interfaces such as Ethernet and PROFI-safe also enable simple use, e.g. in retrofit applications.



Your benefits at a glance

- High safety category Cat. 3/PL d enables safeguarding of robotic applications
- High flexibility thanks to optimized 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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PSEN rd1.x I/O
analyzing unit

PSEN rd1.1 sensor



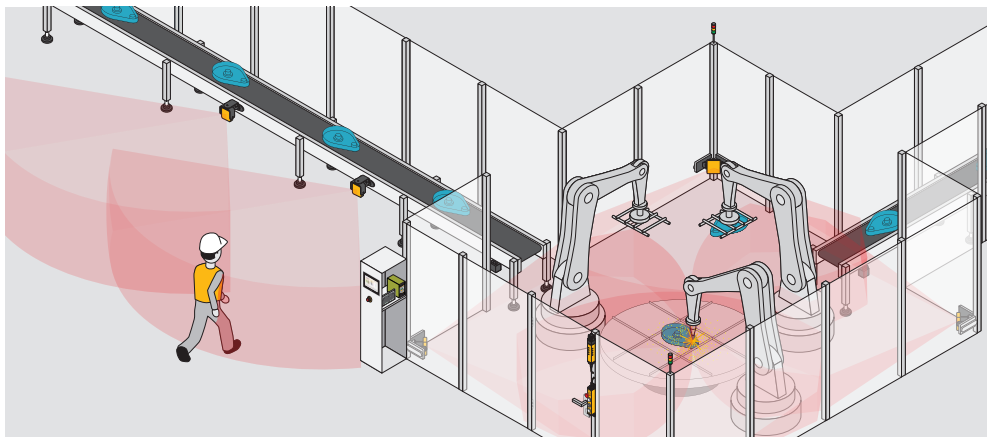
PSEN rd1.2 sensor



PNOZ m B0



Type	Common features	Order number
PSEN rd1.x I/O analyzing unit	<ul style="list-style-type: none"> ▶ Series connection: up to 6 sensors ▶ Zone sets: up to 32 ▶ OSSD outputs: up to 4 ▶ Reaction time: max. 100 ms ▶ Connection type: USB ▶ Dimensions (H x W x D) in mm: 103 x 105 x 58 	6B000005
PSEN rd1.1 sensor	<ul style="list-style-type: none"> ▶ 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	<ul style="list-style-type: none"> ▶ 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 <ul style="list-style-type: none"> - 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 	6B000003
Accessories	<ul style="list-style-type: none"> ▶ 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 ▶ Connector/CA/M12-5SMX/A/TR ▶ PNOZ m B0 	6B000004 C1000044 C1000045 C1000046 C1000047 C1000048 C1000049 C1000050 C1000058 772 100

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