

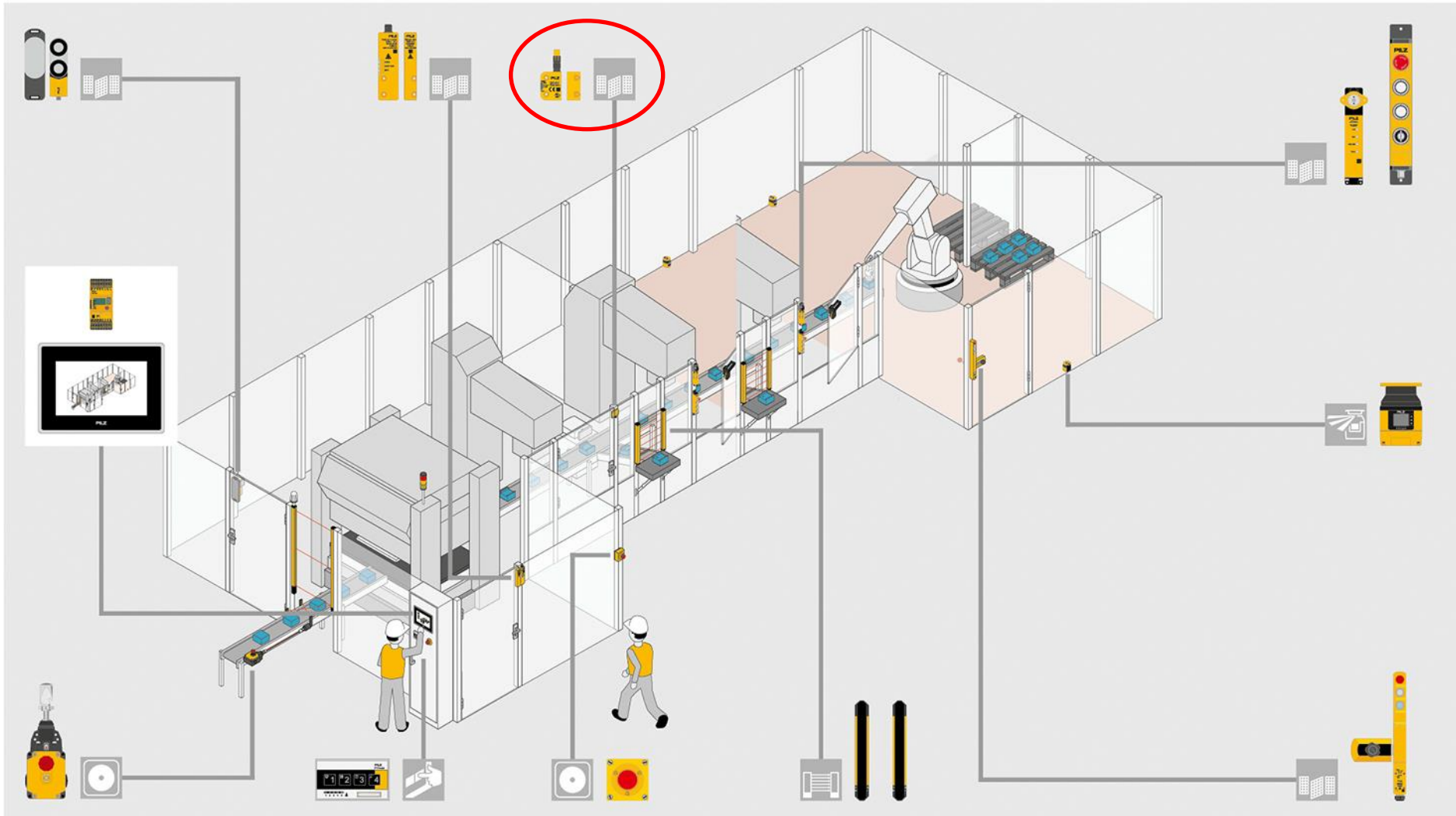
Magnetic safety switch PSENmag

Highest level of safety at a low price

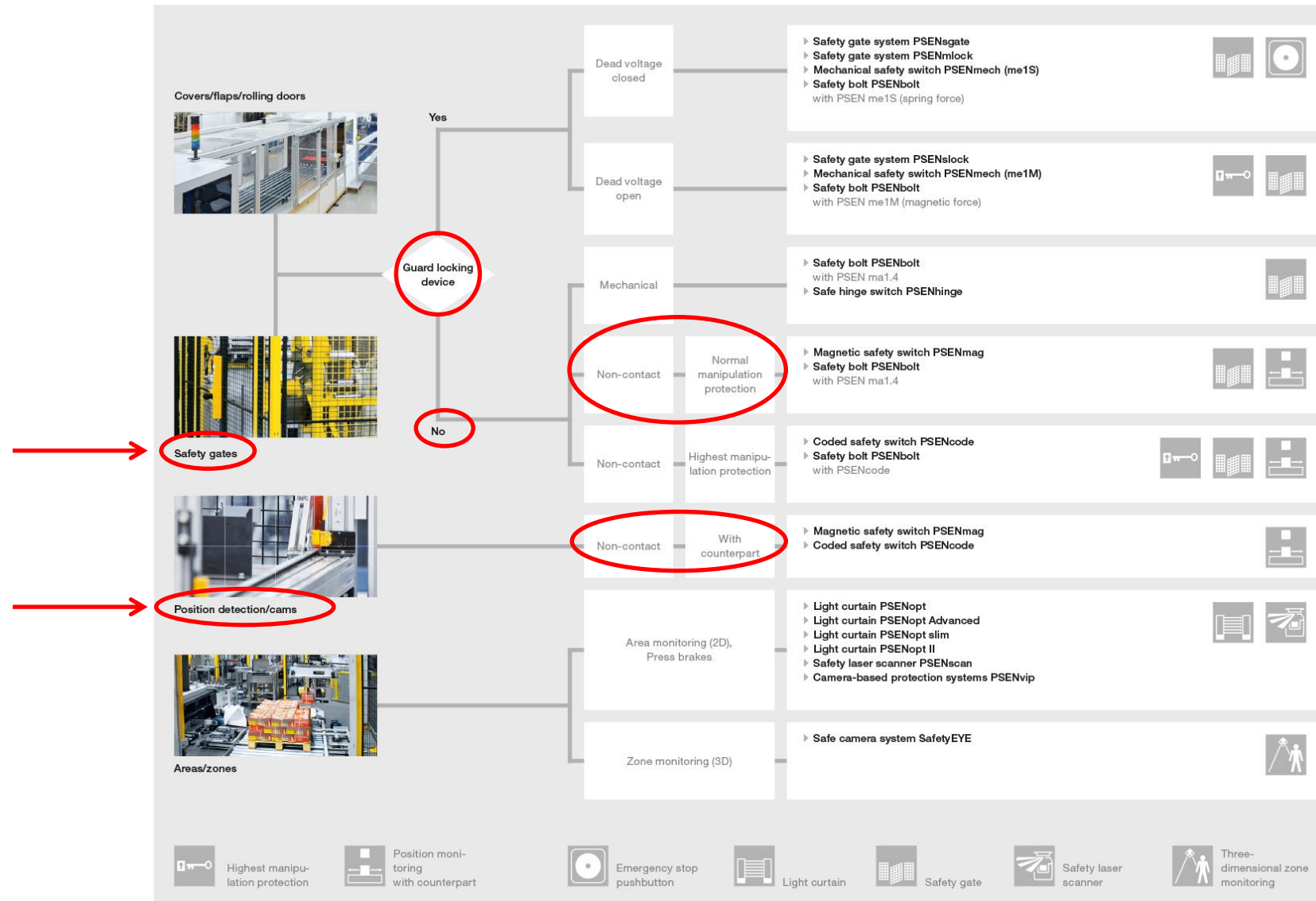


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► **The safe solution for your application:
Sensor and control technology**



► For every requirement – Safe sensors



► Product description: Magnetic safety switch PSENmag



PSENmag - Highest level of safety at a low price

- Mode of operation: Non-contact, magnetic
- Diagnostic interface: With or without LED
- Typical operating distance: 3 / 8 / 10 mm
- Series connection: With PDP67 or PSEN ix1

PSENmag stainless steel versions – high safety and maximum robustness for extreme conditions

- Additional versions with stainless steel housing
- Mode of operation: Non-contact, magnetic
- Diagnostic interface: With or without LED
- Typical switching distance: 12 mm

► Benefits at a glance: Magnetic safety switch PSENmag



Highest level of safety at a low price

- **Reduced costs:** Due to series connection with PDP 67 F 8DI ION and PSENix1
- **Rapid diagnostics:** Optional clear LED display on the sensor
- **Long product service life:** Non-contact action principle
- **Flexible application options:** Thanks to a variety of connections, dimensions, mounting and approach directions, operating distances and IP67/69K protection type
- **Safe, complete solution:** In conjunction with control technology with BG approval for applications up to PL e of EN ISO 13849-1 or SIL 3 of EN/IEC 62061

► Benefits at a glance: PSENmag stainless steel

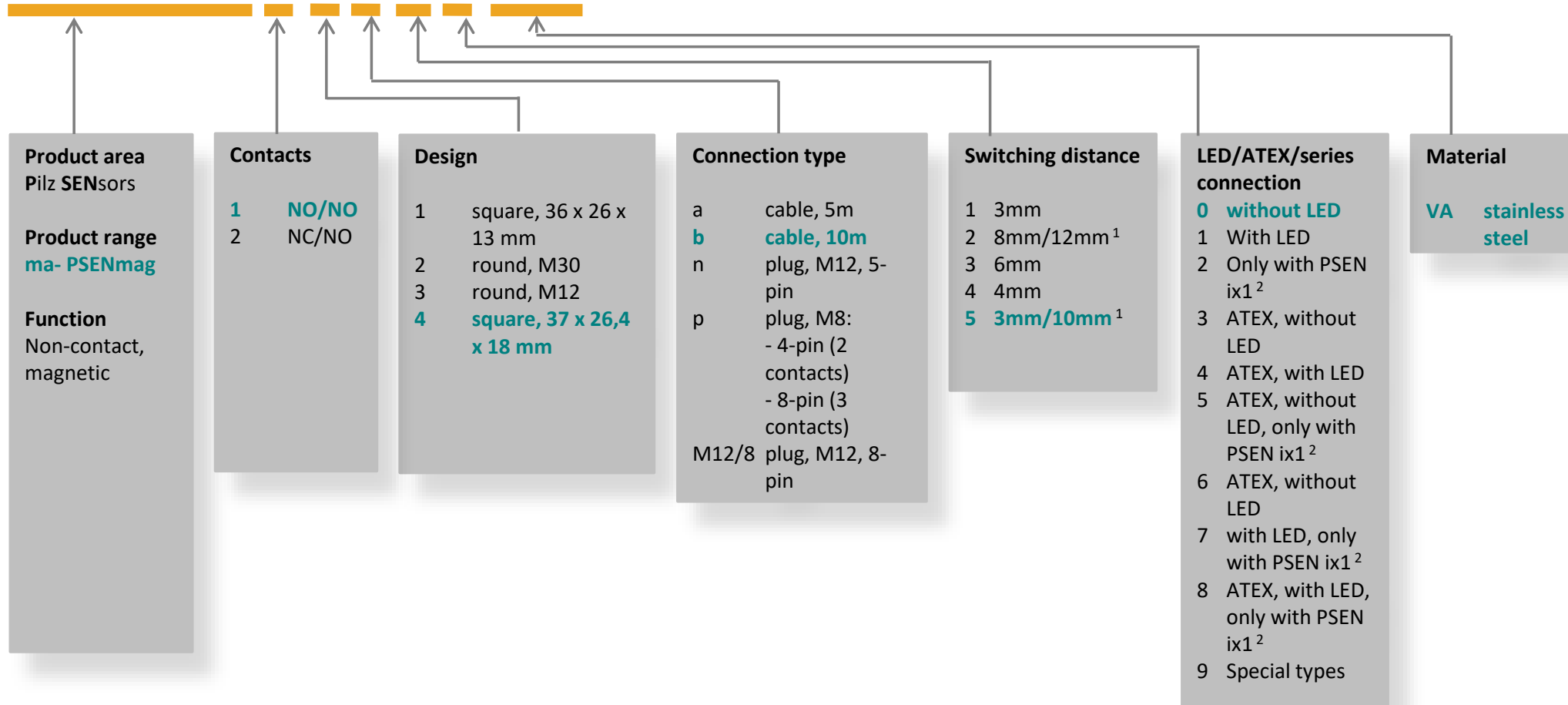


High safety and maximum robustness for extreme conditions

- Stainless steel housing for maximum robustness
- Resistant to heat and cold for temperature ranges from - 25 to 80°C, connector version up to 120°C
- For use with heavy soling and high cleaning demands IP67/ IP69k
- High level of safety, even in potentially explosive areas
- Shock and vibration-proof
- Long service life thanks to high B10D value
- Compact design for space-saving installation
- User-friendly diagnostics using additional signal contacts and LEDs
- Safe and complete solution, e.g. with PNOZmulti or PNOZsigma

► Type code: Magnetic safety switch PSENmag

P S E N m a 1 . 4 b - 5 0 V A



¹⁾ depending on the actuator ²⁾ Ri=0 Ω

► Product in detail: Magnetic safety switch PSENmag

PSEN 1.1a
PSEN 2.1a



PSEN 1.1p
PSEN 2.1p



PSEN 1.2p
PSEN 2.2p



PSEN ma1.3



PSEN ma1.4p



Mechanical data:

- Directions of actuation: 4
- Diagnostic interface: With and without LED
- Design: Square and round
- Typical operating distance: 3 mm/ 8 mm/ 10mm
- Protection type: IP 67, IP 69k

Electrical data:

- Connection:
 - M8 connector, 4-pin or 8-pin
 - M12 connector, 5-pin (in preparation)
 - 5m cable
 - 10m cable
- Contacts: PSEN (ma)1: NO/NO, PSEN (ma)2: NC/NO

▶ Product in detail: PSENmag stainless steel



Mechanical data:

- ▶ Directions of actuation: 1
- ▶ Diagnostic interface: With and without LED
- ▶ Design: Round
- ▶ Assured switching distance: 12 mm
- ▶ Protection type: IP67, IP69
- ▶ Stainless steel housing

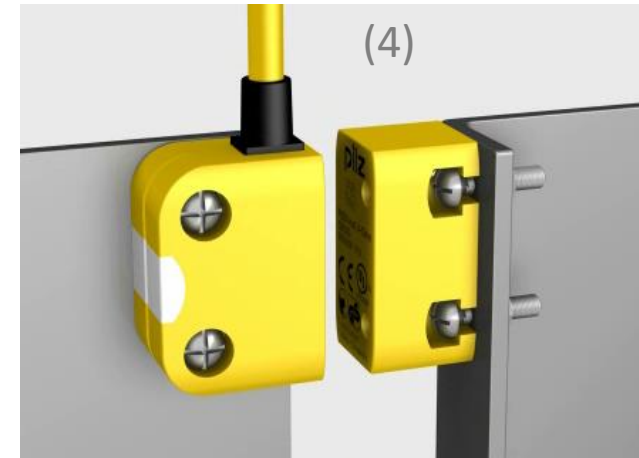
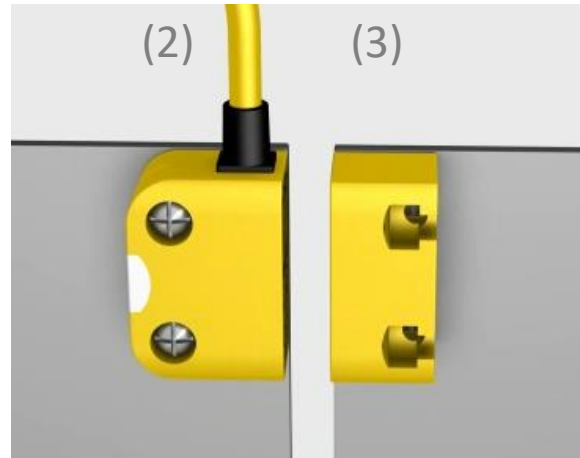
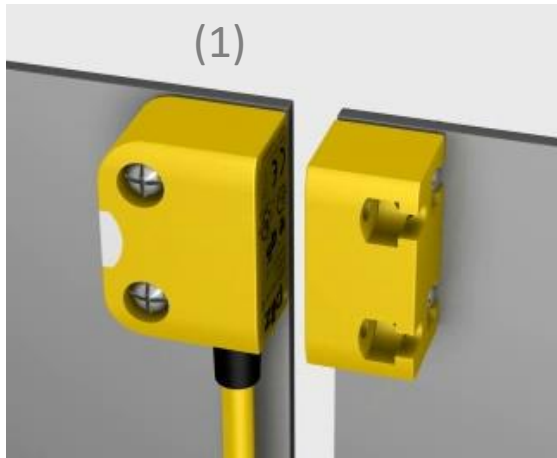
Electrical data:

- ▶ Connection: M12 connector, 5-pin or 8-pin, cable 5 m or 10 m
- ▶ Contacts: 2 N/O or 3 N/O, of these 1 auxiliary contact with LED
- ▶ Series connection: With PSEN ix1 or PDP67 F8 ION

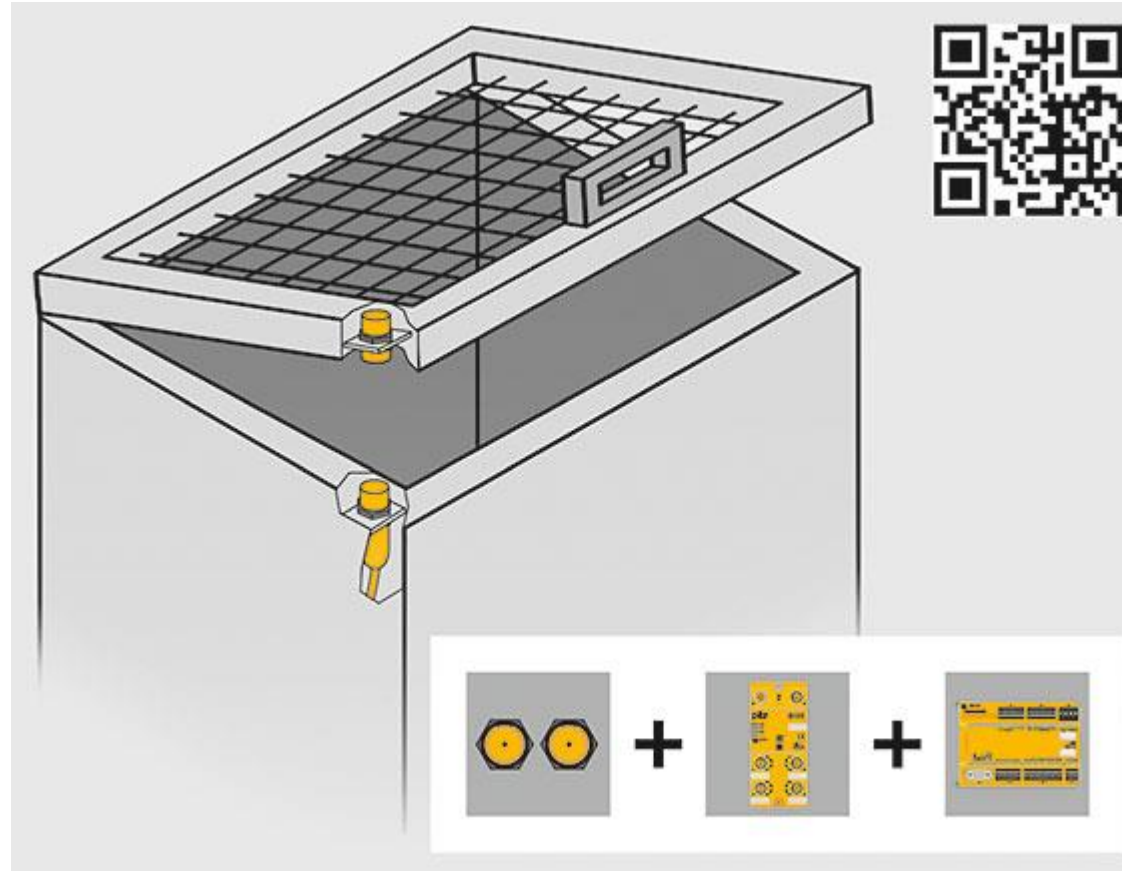
► Product in detail: Magnetic safety switch PSENmag

Simple assembly due to

- Moulded cable or pigtail connector
- Sensor can be assembled in either position, (1) and (2)
- Actuator optimized for flat (3) or angled (4) assembly



► Application examples: Magnetic safety switch PSENmag



Covers, flaps

The safe, complete solution: Sensor and control technology from Pilz

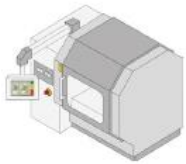
► Application examples: Magnetic safety switch PSENmag

- Monitoring guards
 - Rotatable and hinged gates
 - Sliding gates
 - Flaps
 - Rolling doors
 - Covers
- Position monitoring (3mm operating distance)



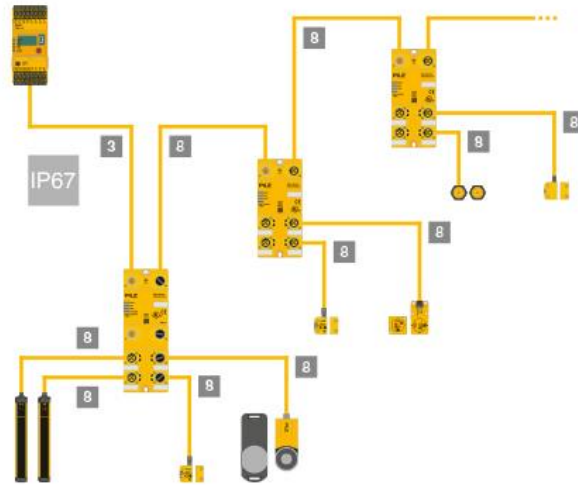
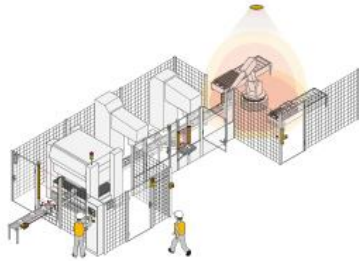
► Series connection: Magnetic safety switch PSENmag

Sensor technology PSEN
connected directly



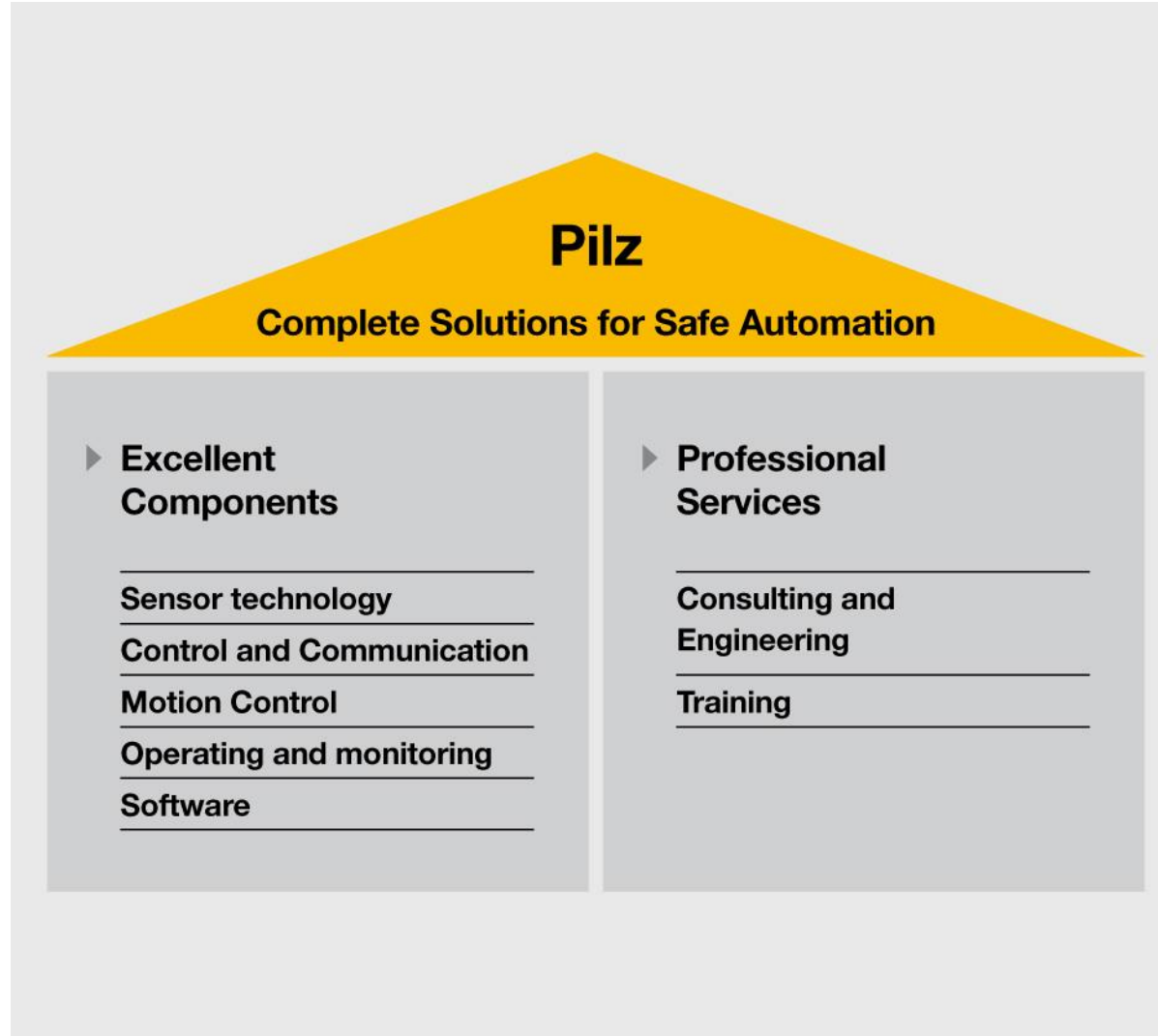
¹⁾ also available as
shielded variant

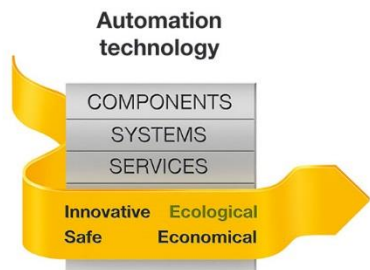
Sensor technology PSEN with M12, 5-pin connector (n-type)
for PDP67 F 8DI ION and PNOZmulti



For the connection of p-type sensors,
the respective adapters are also required: 9 10 11

► Complete solutions for safe automation





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