



► IO-Link Safety

Communicate safely at field level –
in one system

PILZ
THE SPIRIT OF SAFETY



▶ IO-Link Safety: Communicate safely at field level – in one system

NEW



IO-Link Safety is revolutionising industrial automation by combining the highest safety standards with easy integration and maximum flexibility. The standardised communication system IO-Link Safety enables safe point-to-point communication and offers the highest safety up to PL e of EN ISO 13849-1 in accordance with IEC 61139-2 (or SIL 3 of IEC 61508/62061).

Seamless communication with each sensor and actuator enables intelligent data evaluation. IO-Link Safety communication is performed via unshielded cables and industry-standard industrial connectors, which saves time and effort when replacing devices.

Pilz offers you a complete system solution comprising master, sensors, field devices and the suitable accessories. Among the first IO-Link Safety devices are the safety light curtains PSENOpt II Advanced, the control unit PITgatebox and the IO-Link Safety Master PDP67.

The IO-Link Safety Master PDP67 from Pilz functions as an interface



Your benefits at a glance

- ▶ Safe point-to-point communication from the controller to the sensor in the field
- ▶ Maximum safety up to PL e of EN ISO 13849-1 (SIL 3 of IEC 61508/62061)
- ▶ Simplified installation
- ▶ Expanded diagnostic options optimise production processes
- ▶ Automatic identification and parametrisation reduce the range of models and save space in storage




to the safety controller and enables bidirectional communication up to the field level.

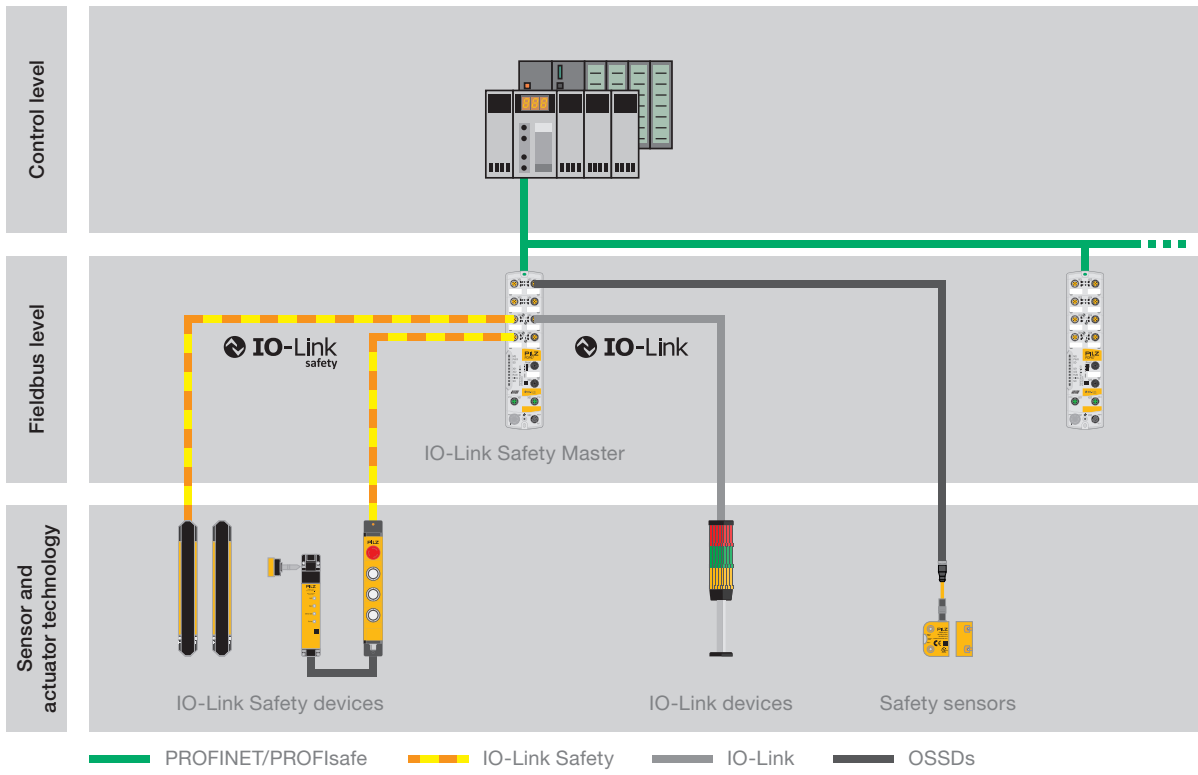
IO-Link Safety devices from Pilz offer important status information and expanded diagnostic options. They

can be identified and parametrised automatically, which makes the replacement of components easier and reduces downtimes.



Communicate safely at field level – in one system

Type	Technical features
 PDP67	IO-Link Safety Master <ul style="list-style-type: none"> ▶ 4 IO-Link Safety ports (Class A) and 4 ports, each with two configurable safe digital inputs or outputs ▶ PROFINET/PROFIsafe device ▶ Interface: M12, 5-pin ports ▶ Functional safety: PL e/SIL 3 ▶ Protection class: IP67/IP69K ▶ Housing: Die cast zinc metal
 PSENopt II Advanced	IO-Link Safety safety light curtain <ul style="list-style-type: none"> ▶ Body/hand/finger protection, Type 3 (PL d)/Type 4 (PL e) ▶ Protected field height: 300 ... 1800 mm ▶ Muting/blanking ▶ Single beam evaluation ▶ Reduced resolution ▶ Connector M12, transmitter: 5-pin, receiver: 12-pin ▶ Operating mode: IO-Link Safety or OSSDe mode
 PITgatebox	IO-Link Safety pushbutton unit <ul style="list-style-type: none"> ▶ With 1 E-STOP pushbutton and 3 illuminated pushbuttons ▶ IO-Link Safety, 8-pin M12 female connector and 4-pin M12 male connector



IO-Link Safety:



www.pilz.com/io-link-safety

Safe point-to-point communication from the controller up to field level

▶ IO-Link Safety Master PDP67

NEW



As an all-round device, the IO-Link Safety Master PDP67 from Pilz offers a wide range of options to connect the most diverse devices, including IO-Link and IO-Link Safety, safe input and output signals, as well as standard signals. It also expands the functions of a conventional IO-Link Master by adding the option for safe communication for functional safety. The IO-Link Safety Master is the decentralised interface to the higher level safety controller and enables a point-to-point connection up to field level. The module also offers configurable ports, through which it is possible to process safe input and output signals. Due to its robust protection class IP67 or IP69, it can be installed directly on the machine. This saves space in the control cabinet and enables modular plant designs. Thanks to the integration into a dirt and water-repellent IP67 housing, PDP67 reliably ensures safety even in rugged industrial environments.



Your benefits at a glance

- ▶ Maximum flexibility due to suitable connection options for IO-Link, IO-Link Safety, safe input and output signals, standard signals, OSSD
- ▶ Universally configurable, safe inputs and outputs
- ▶ Decentralised installation of safety-related, digital field devices
- ▶ Installation almost anywhere due to compact and robust housing
- ▶ Can be used up to protection type IP67/IP69K
- ▶ Reduced wiring due to plug-and-play with standardised M12 plug-in connections
- ▶ Simple configuration due to proven Pilz tools
- ▶ Integrated web server for rapid fault diagnostics



IO-Link Safety Master PDP67

PDP67 PN
8FDIO 4IOLSµSD memory card
512 MB M12A

IP67 labels

Caps for L-coded
connectionsCaps for IP67
modules**Technical features**

- ▶ 4 x IO-Link Safety ports (Class A)
- ▶ 4 x ports, each with two configurable safe digital inputs or outputs
- ▶ PROFINET/PROFIsafe device
- ▶ Interface: M12, 5-pin ports
- ▶ Protection class: IP67/IP69K
- ▶ Housing: Die cast zinc metal
- ▶ Ambient temperature: -30 °C ... +70 °C
- ▶ Functional safety: PL e/SIL 3
- ▶ Application in heights up to 5 000 m

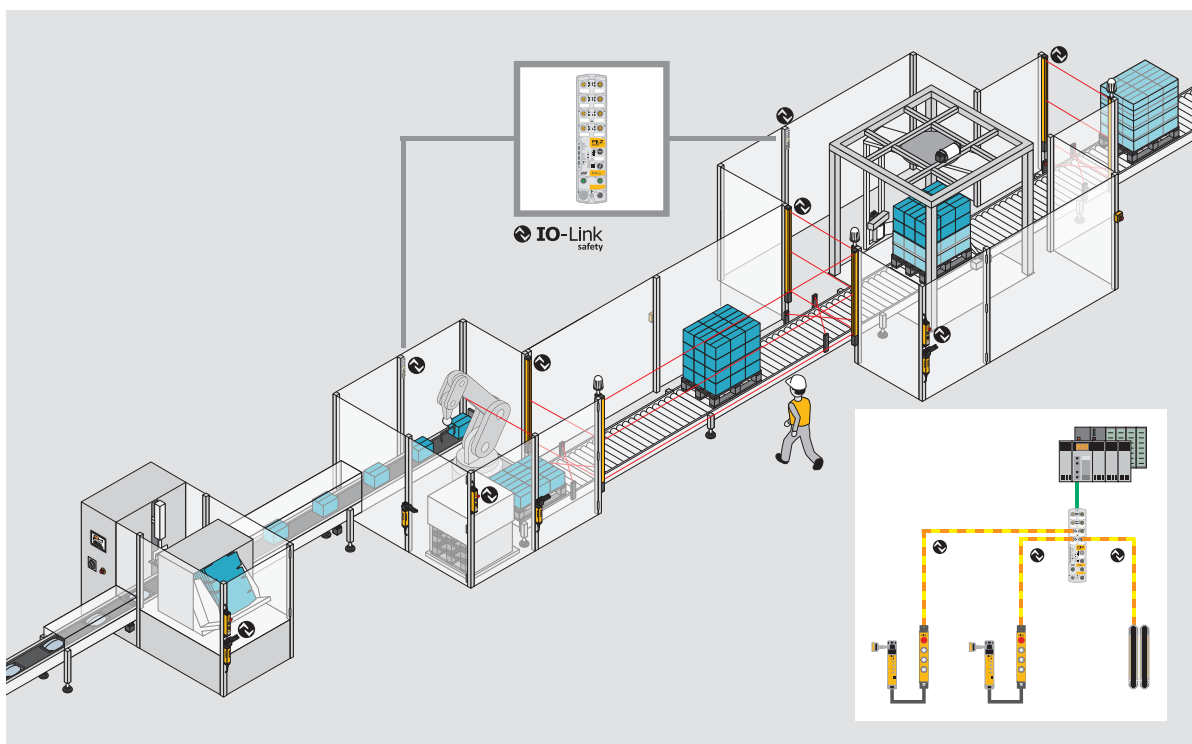
Order number**PDP67 PN 8FDIO 4IOLS**

4R000004

Accessories

- | | |
|--------------------------------|----------|
| ▶ µSD memory card 512 MB M12A | 4R000002 |
| ▶ IP67 labels | C1000033 |
| ▶ Caps for L-coded connections | 380328 |
| ▶ Caps for IP67 modules | 380324 |

Besides the IO-Link Safety Master, Pilz also offers a universal system for IO-Link Safety, comprising Master, field devices such as safety sensors, as well as suitable cables and configuration tools. The complete package makes it easier to integrate IO-Link Safety technology into plant and machinery. So Pilz supplies a complete one-stop system that's safe and reliable.

IO-Link Safety
Master PDP67:
[www.pilz.com/
pdp67](http://www.pilz.com/pdp67)

IO-Link Safety in use on an interlinked packaging plant.

► Pushbutton unit PITgatebox with IO-Link Safety

NEW



The pushbutton unit PITgatebox combines pushbutton, key switch and E-STOP pushbutton in one compact control unit – individually configurable for your application. Thanks to the slimline design, the robust control unit can be installed quickly and easily on standard profile systems. The PITgatebox gives you a modular safety gate solution tailored to your particular needs, especially when combined with the safety locking devices PSENmlock and PSEnlock 2.

New: Pushbutton unit PITgatebox with IO-Link Safety – for maximum transparency and productivity. Thanks to IO-Link Safety, you receive live data on the gate status and operating state directly to your system. This not only simplifies commissioning and maintenance, but also enables predictive maintenance – for higher availability and reduced downtimes. The PITgatebox IOLS can be operated as a stand-alone device or in conjunction with other safety switches, with and without guard locking. Each preconfigured version with various cable outputs, push-buttons and E-STOP pushbuttons provides maximum flexibility for individual applications.






Your benefits at a glance

- Maximum safety: Safety level up to PL e, Category 4 (ISO 13849-1) and SIL 3 (IEC 61508)
- Complies with Port Class A in accordance with the IO-Link Safety specification
- Rapid installation thanks to 4-pin M12 connection
- Scalability: Connection of more sensors per IO-Link Safety port
- Transparent status monitoring: Digitisation of the status data with IO-Link Safety
- Efficient commissioning and maintenance

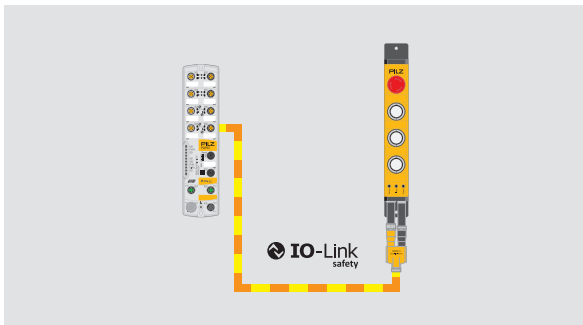


PITgatebox with IO-Link Safety

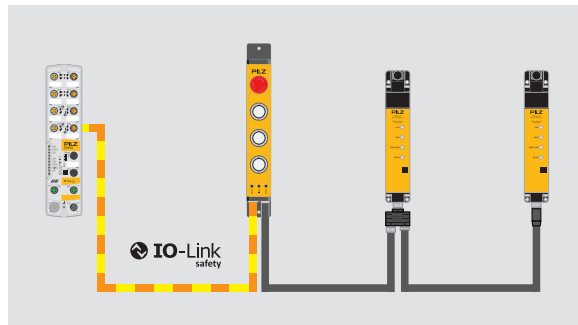
Type	Technical features	Order number
 PIT gb LLE down IOLS	IO-Link Safety pushbutton unit ▶ With 1 E-STOP pushbutton and 2 or 3 illuminated pushbuttons ▶ 8-pin M12 female connector and 4-pin M12 male connector ▶ PL e, Cat. 4 (EN ISO 13949-1) ▶ SIL 3 (IEC 61508) ▶ Robust die cast zinc housing ▶ Installation: Rotatable mounting bracket (metal) ▶ Protection type: IP65	
 PIT gb LLE down IOLS	▶ Pushbutton unit PITgatebox IO-Link Safety ▶ With 1 E-STOP pushbutton and 3 illuminated pushbuttons ▶ 8-pin M12 female connector and 4-pin M12 male connector ▶ Connector at bottom ▶ Incl. coloured cap set	G1000023
 PIT gb CLLE down IOLS	▶ Pushbutton unit PITgatebox IO-Link Safety ▶ With E-STOP and 2 illuminated pushbuttons ▶ 8-pin M12 female connector and 4-pin M12 male connector ▶ Connector at bottom ▶ Incl. coloured cap set	G1000025

Application examples:

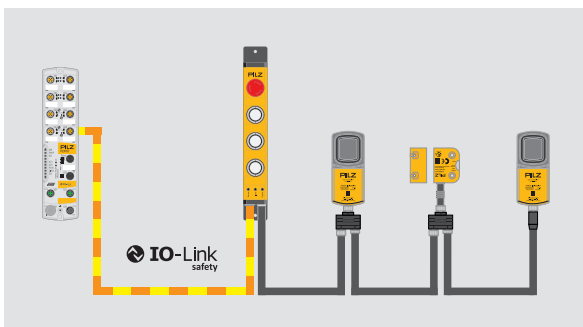
The connection of additional safety sensors and pushbutton units, in single or series connection, such as PSEnmlock, PSEnslock 2, PSEncs and additional PITgatebox IOLS is possible.



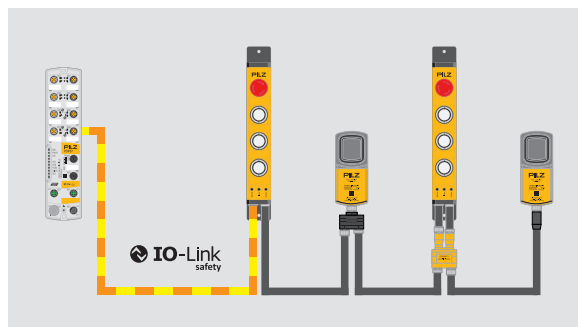
PITgatebox IOLS stand-alone (with adapter)



PITgatebox IOLS with PSEnmlock



PITgatebox IOLS with PSEnslock 2 and PSEncs



PITgatebox IOLS with additional PITgatebox IOLS and PSEnslock 2

Support

Technical support is available from Pilz round the clock.

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If you would like to report a security vulnerability or a security incident in connection with a Pilz product, please contact our **Pilz Product Security Incident Response Team (PSIRT)**.

You can reach us at: www.pilz.com/psirt

Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.



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