



IO-Link

# Safety over IO-Link



PROFIsafe IO-Link module



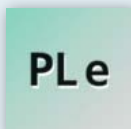
**Safety module for IO-Link**

**8 safe OSSD inputs**

**4 powerful outputs with separate 24 V supply**

**PROFIsafe telegram tunnelled via IO-Link**

**Safety to SIL 3 and PLe**



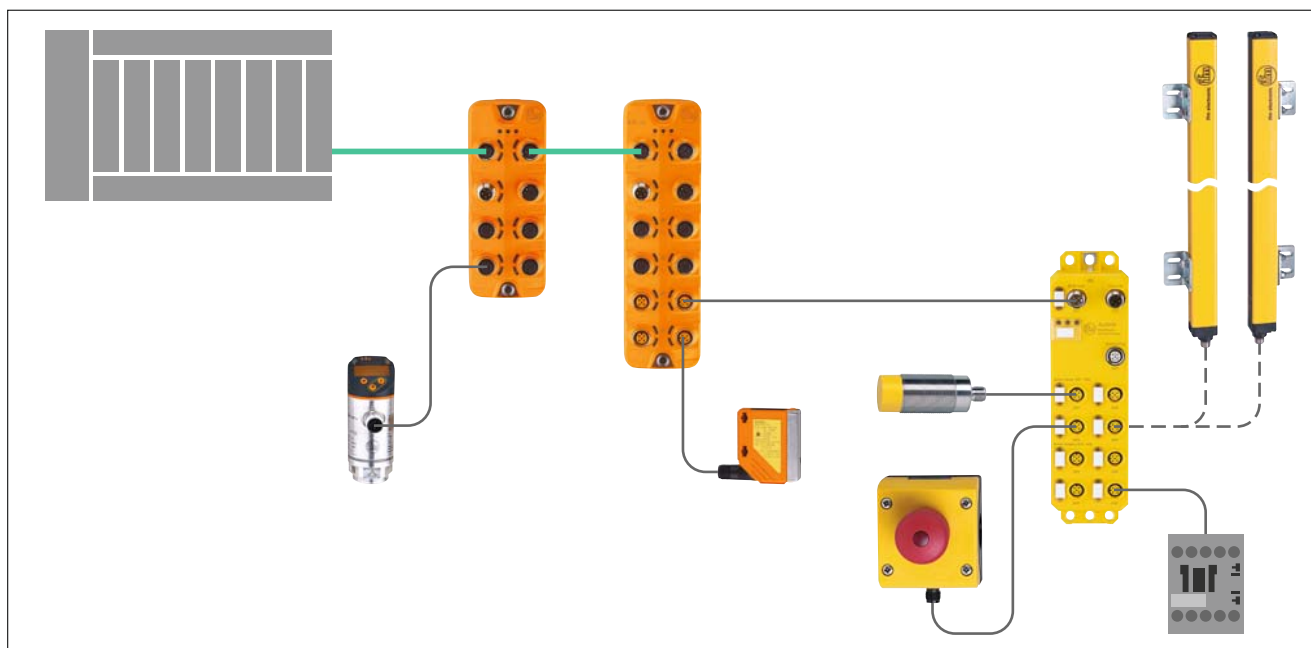
## IO-Link for safety-related applications

Thanks to the transmission protocol "PROFIsafe", standard safety sensors and actuators can be operated via IO-Link.

All you need is the PROFIsafe IO-Link module. It features 8 safe digital inputs (OSSD) and 4 safe outputs. The innovation: On the hardware side, the module is simply connected to a normal IO-Link master via IO-Link. The special PROFIsafe transmission telegram ensures a "tunneled" connection with the safety controller within the normal IO-Link communication. It fulfils the safety levels SIL 3 to IEC 61508 / EN 61508 and PLe to EN ISO 13849-1.


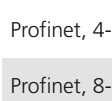
## Powerful safe outputs


A separate 24 V supply via L-coded M12 sockets enables connection of powerful actuators. The outputs can be configured as PNP or NPN.









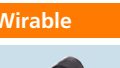

## Accessories



Type	Description	Order no.
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IO-Link master PerformanceLine Coolant		
	Profinet, 4-port	<b>AL1400</b>
	Profinet, 8-port	<b>AL1402</b>

Accessories for AL200S		
	PROFIsafe address plug	<b>E7700S</b>

M12 socket, connection cable 2.5 mm <sup>2</sup> , L-coded (power)	M12 - open	M12 - M12
	1 m	- <b>E12653</b>
	2 m	<b>E12641</b> <b>E12654</b>
	5 m	<b>E12642</b> <b>E12655</b>
	10 m	<b>E12643</b> <b>E12656</b>

M12 connection cable 0.34 mm <sup>2</sup> (sensor)		
	1 m	- <b>EVC042</b>
	2 m	- <b>EVC043</b>
	5 m	- <b>EVC044</b>
	10 m	- <b>EVC493</b>

Wirable		
	M12 connector L-coded (power)	- <b>E12673</b>
	M12 socket L-coded (power)	- <b>E12672</b>

On the hardware side, the PROFIsafe IO-Link module is connected to an A or B port of an AL1400 or AL1402 IO-Link master.

The safety module is powered via a separate L-coded M12 cable.

The "PROFIsafe" transmission protocol ensures tunnelled safety communication with the safety controller.

### Easy replacement of units through address plug

The PROFIsafe address plug E7700S enables simple and fast replacement of the AL200S without a computer and without additional software. This memory plug is simply plugged into the new AL200S and the stored PROFIsafe address is automatically transferred to the new PROFIsafe IO-Link module.

Technical data PROFIsafe IO-Link module		Order no. AL200S
Operating voltage	[V DC]	19.2...30.2; (US; to SELV/PELV)
Additional voltage supply	[V DC]	19.2...30.2; (UA)
<b>Actuator supply UA</b>		
Total current rating	[A]	6
Current rating per port	[A]	2
IO-Link version		1.1
IO-Link transmission type		COM3
Number of inputs / outputs		8 / 4
<b>Safety classification</b>		
1-channel (ISO 13849-1)		PL d
1-channel (IEC 61508)		SIL 2
2-channel (ISO 13849-1)		PL e
2-channel (IEC 61508)		SIL 3
Protection rating		IP 65, IP 67
Ambient temperature	[°C]	-25...60

We reserve the right to make technical alterations without prior notice. · 05.2020