MVK Fusion CIP Safety

3-in-1 functional safety module

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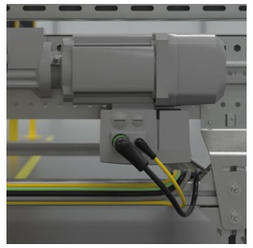
Efficient engineering thanks to MVK Fusion CIP Safety

MVK Fusion CIP Safety combines three central functions of installation technology: digital standard sensors and actuators, digital safety-related sensors and actuators and IO-Link. This reduces the number of fieldbus modules required per modular unit, in the best case to just one. Installation is simpler and faster.

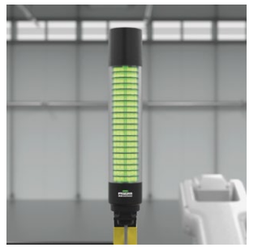
Various adapters are available for simplifying the connection of devices with safety and standard signals.



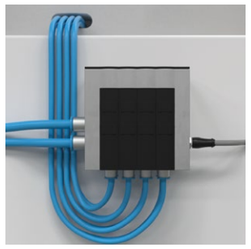
Configurable sourcing-bi-polar safety outputs can be used for Safe Torque Off.

Configurable single or redundant safety inputs can be used for dry contacts or OSSD devices.

Operating many devices such as e-stop with reset button or interlocks requires a combination of safety and standard signals.



IO-Link Class A port for illumination or IO expansion.



IO-Link Class B port with safety output for achieving up to PLd on valve manifolds and other output devices.

MVK Fusion CIP Safety at a glance

FDO

The secure output port X3 offers a powerful and flexible solution for your applications.

- Up to 2A per channel
- One or two safety outputs per IO port
- Adjustable output behavior (P-P, P-M, P-P-M)
- Control of various actuator types, including double valves
- High diagnostic coverage through dark test

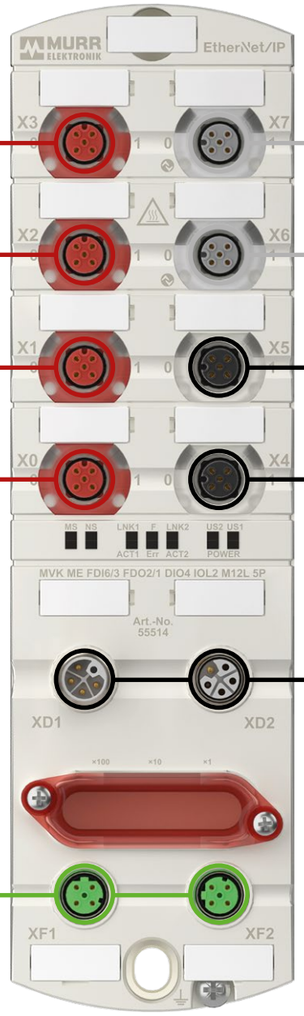
FDI

The safe input ports X0, X1 and X2, each with two channels, record signals from typical safety sensors up to the maximum performance level e.

- Individual test pulses for detecting peripheral faults
- Robust 24V DC / 700 mA power supply
- Short-circuit and overload-proof
- Adjustable parameters such as discrepancy, input delay and sensor valence

Ethernet

M12 D-coded Ethernet ports for backbone communication.



IO-Link

The IO-Link slots X6 and X7 enable the cost-efficient integration of complex sensors and actuators into the fieldbus system and extend digital standard signals.

- Adding up to 32 additional DIOs with IO-Link hubs
- Safe shutdown of IO-Link devices up to performance level d with Class B IO-Link port X7

DIO

The digital ports X4 and X5 offer maximum flexibility and efficiency.

- Can be used as input or output
- Adjustable input delay from 1 to 15 milliseconds
- Sensor-related power supply up to 700 mA
- Outputs carry up to 2 A per channel
- Protected against reverse polarity, short circuit and overload

Power

M12 Power L-coded power supply with up to 16 A.
The XD2 port forwards the voltage.

Safety configuration with just a few mouse clicks

MVK Fusion CIP Safety greatly simplifies the configuration of safety-related sensors and actuators. Parameterization is easily done in the controller manufacturer's engineering tool. There is no need for a special manufacturer's tool to transfer the SNN (Safety Network Number) to a new device. This saves time and reduces stress by eliminating the possibility of incorrect entries.

Technical data

- Robust, fully encapsulated metal housing
- Shock and vibration resistant
- IP67 RATED
- Temperature range from -30 °C to +60 °C

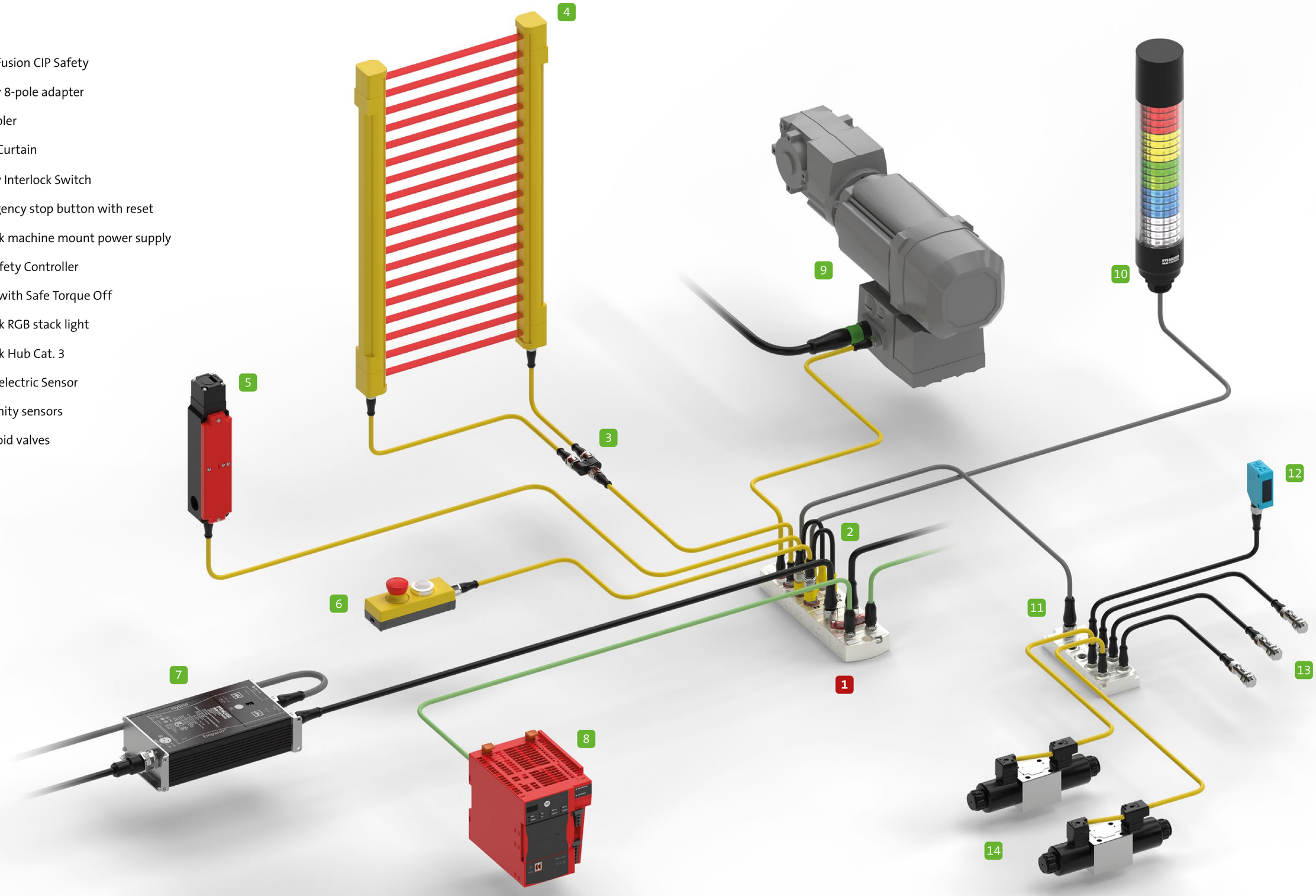
- CIP Safety
- Certifications: CE, UKCA, UL, TÜV
- **Art.-No. 55514**

EtherNet/IP

IO-Link

Connection options

1. MVK Fusion CIP Safety
2. Safety 8-pole adapter
3. T-coupler
4. Light Curtain
5. Safety Interlock Switch
6. Emergency stop button with reset
7. IO-Link machine mount power supply
8. CIP Safety Controller
9. Drive with Safe Torque Off
10. IO-Link RGB stack light
11. IO-Link Hub Cat. 3
12. Photoelectric Sensor
13. Proximity sensors
14. Solenoid valves



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