

## Anybus Safe2Link Remote IO -CS

Item number: 1.01.0306.00001

The Anybus Safe2Link Remote IO - CS is a compact, plug-and-play I/O device that mounts directly onto your mobile machine, such as an AGV or AMR, and connects it to factory safety systems via CIP Safety over EtherNet/IP. It simplifies both local and remote safety loops using configurable SafeBound™ logic and support for Safe Stop Category 1 (SS1-t). With a rugged, IP54-rated design and full type approval to SIL 3 / PLe, it's ready for use in certified safety applications making it the fastest and easiest way to implement functional safety in mobile applications. Ideal for system integrators and OEMs.



*Easiest way to implement functional safety in mobile machines using CIP Safety*

## Features and benefits

### ✓ High safety level assurance

The module meets the SIL3 safety requirement level as defined by IEC 61508 and Performance Level PLe / Category 4 in ISO 13849-1, ensuring a high standard of safety and reliable performance.

### ✓ Safe Remote Stop

With SafeBound™, local safe inputs such as emergency stop or safety Lidar sensors can be directly linked to the local Safe Torque Off (STO) for fast safe reactions. At the same time, a slower remote safe stop, such as via a wireless fieldbus network, can also be linked to the STO. This supports compliance with ISO 3691-4 and the new EU machinery regulation 2023/1230.

### ✓ Plug-and-play type-approved safety device

The Safe2Link Remote IO-CS is type approved by TÜV Rheinland, ready for immediate use. It comes with a Sistema library to simplify the overall safety function approval in the end-device.

### ✓ Remote power control for energy efficiency

Additional non-safe controllable IOs can be used to remotely power on/off high-consumption components like main controllers or drives via wireless network, improving battery life and simplifying restarts.

### ✓ Fast, scalable deployment

### ✓ Integrated safe fieldbus communication

Connects directly to factory safety systems via CIP Safety over EtherNet/IP, no external gateways needed. Safe and non-safe communication are fully integrated; just connect Ethernet and power. Compatible with all standard CIP Safety controllers.

### ✓ Stable operation of mobile devices

To keep mobile devices stable during an STO, the Safe2Link Remote IO/CS implements a Safe Stop Category 1 (SS1-t) function. A non-safe output indicates the necessary ramp-down to the vehicle controller before the STO is activated. The safe ramp-down waiting time can be configured via the safety fieldbus protocol.

### ✓ Compact, IP54-rated design with industrial-grade connectors

Fits directly on or inside mobile machines, even in harsh environments, no separate protective housing required. It uses standardized M12 D-Coded connectors for Ethernet connectivity. Power and I/Os connect via a single D-Sub25 plug, allowing for compact wire harnesses inside the machine.

### ✓ Easy retrofit for safety compliance

Supports safe remote stop functions as required by ISO 3691-4 and the new machinery regulation EU 2023/1230. It enables safety-compliant stop functions that can be retrofitted easily with just some cables and a screwdriver.

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## General

|                              |                                                   |
|------------------------------|---------------------------------------------------|
| Net Width (mm)               | 145                                               |
| Net Height (mm)              | 46                                                |
| Net Depth (mm)               | 106.5                                             |
| Net Weight (g)               | 630                                               |
| Packed Width (mm)            | 173                                               |
| Packed Height (mm)           | 73                                                |
| Packed Depth (mm)            | 135                                               |
| Packed Weight (g)            | 650                                               |
| Operating Temperature °C Min | -10                                               |
| Operating Temperature °C Max | +50                                               |
| Storage Temperature °C Min   | -25                                               |
| Storage Temperature °C Max   | 70                                                |
| Input Voltage (V)            | 24                                                |
| Content of Delivery          | Safe2Link Remote IO Safety leaflet                |
| Not Included (in delivery)   | M12 Ethernet cable Sub-D25 IO and power connector |
| Mounting                     | Wall mount                                        |
| Packaging Material           | Cardboard                                         |

## Identification and Status

|                   |                 |
|-------------------|-----------------|
| Product ID        | 1.01.0306.00001 |
| Country of Origin | Sweden          |

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## Identification and Status

|            |            |
|------------|------------|
| HS Code    | 8517620000 |
| Dual Usage | No         |

## Physical Features

|                             |                                                        |
|-----------------------------|--------------------------------------------------------|
| Connectors / Input / Output | 2x M12 D-coded (Ethernet) Sub-D25, male (Power and IO) |
| Contains Battery            | No                                                     |

## Safety and Security

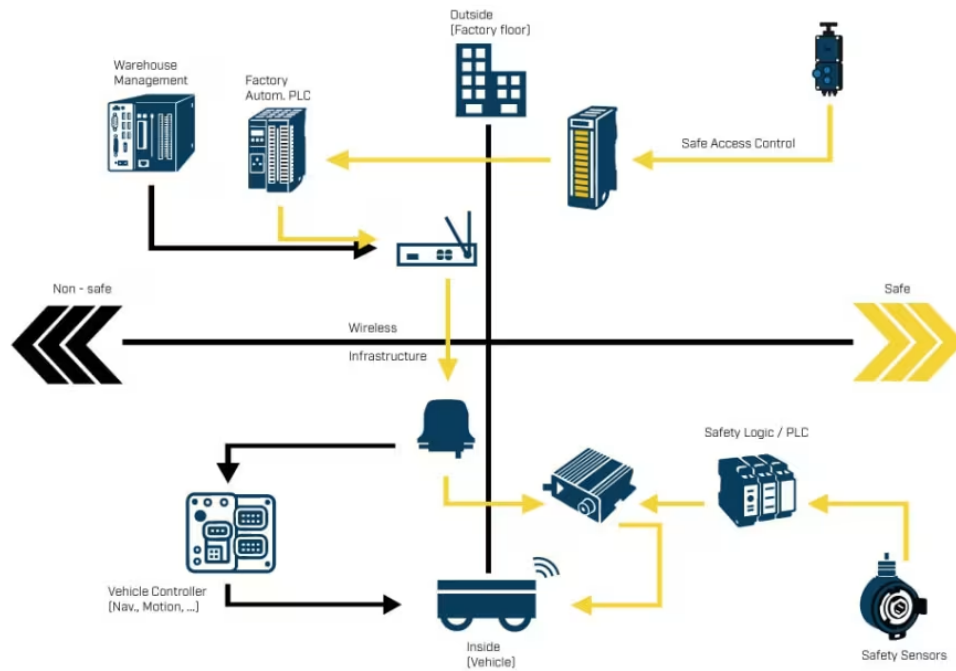
|                  |                                                              |
|------------------|--------------------------------------------------------------|
| Safety Standards | IEC 61508:2010 EN ISO 13849-1:2023 EN IEC 61131 EN IEC 61326 |
|------------------|--------------------------------------------------------------|

## Certifications and Standards

|                        |     |
|------------------------|-----|
| Product Certifications | TÜV |
|------------------------|-----|



## Use Case



The Safe2Link Remote IO - CS mounts directly to mobile machines such as AGVs and AMRs and enables connection to factory safety systems, even over wireless networks. It combines local safety sensors or logic signals into a single Safe Torque Off (STO) output, eliminating the need for separate in-vehicle safety logic when using the SafeBound™ feature. Existing in-vehicle safety concepts or networks don't need modification, as the Safe2Link Remote IO - CS provides its own network connection to the outside fieldbus.