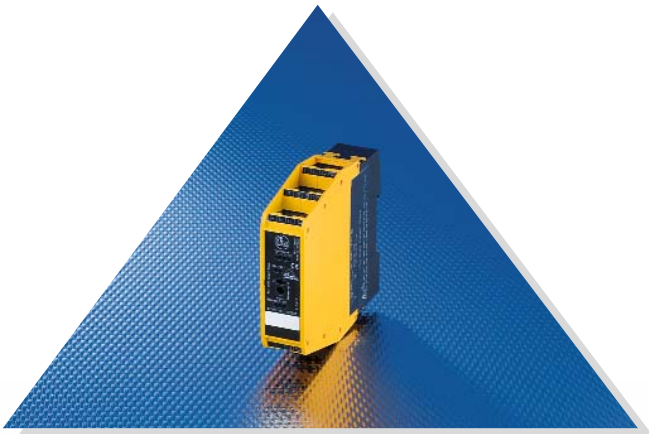




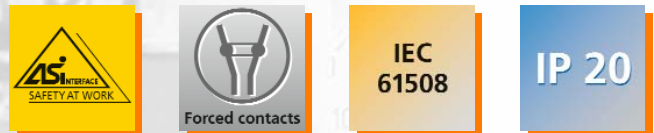
New safe AS-i output module.



Decentralised control of safe actuators.

- ▲ AS-i SmartLine – safe output module for the control cabinet.
- ▲ 1 safe positively driven relay output.
- ▲ 4 non-safe inputs.
- ▲ Safe decentralised control of actuators via AS-Interface.
- ▲ Certification to EN 954-1/SC 4, IEC 61508/SIL3 and EN ISO13849-1/PLe.

Safety at Work

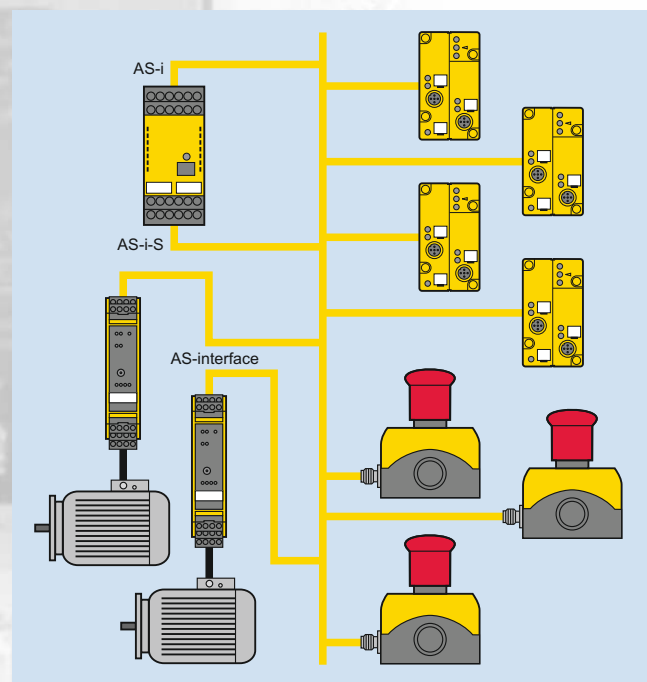


safe AS-i output module

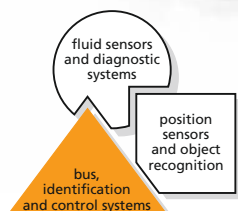
The new safe AS-i SmartLine Safety at Work output module enables the connection of safe actuators to AS-Interface.

The safe AS-i output module is controlled by one of the two AS-i safety monitors available as option.

The user-friendly configuration and diagnostic software ASIMON V3.0 enables clear and quick assignment and logical combination of the safety-related bus components in the new function block representation under Windows.



Control of the safe AS-i output



Function

With the integration of safe actuators, e.g. motor starters or valve assemblies, AS-interface Safety at Work is now made future-proof. This results in completely new applications mainly in drive technology.

As for the safe AS-i input slaves, the AS-i safety monitor monitors the data transmission between master and safe output. Other than for safe inputs, the AS-i safety monitor generates a code table which is cyclically monitored by the safe output slave of the corresponding actuator. The AS-i safety monitor operates as code transmitter and the safe AS-i output as code receiver.

Using the ASIMON software V3.0 the code table in the AS-i safety monitor is assigned a safe AS-i address. For a cyclical check of the code sequences the output slave needs a 7 x 4-bit code table factory programmed by the manufacturer.

This code table is specified in the same way for each safe output slave. Per AS-i safety monitor a safe output slave or a complete output group can be implemented using the same safe address. An immediate and delayed switch-off of the safe actuator is now possible in a decentralised manner.

Advantages and customer benefits

Due to the extension of Safety at Work safe and non safe I/O signals can be transmitted via the same AS-i bus. The safety-related extension is fully downward compatible and can be retrofitted on existing installations.

All masters, power supplies and bus components can still be used.

Application

There is a wide range of applications for the new generation of the safe AS-i Safety at Work output module. Wherever a decentralised safety technology is important, safe AS-i output modules can be used. In conveying, special machines, handling and the food industry these safety-related assemblies have established themselves.


Technical data

Safe AS-i output module		
Operating voltage (AS-i)	[V DC]	26.5...31.6
Total current consumption	[mA]	≤ 200
Relay output positively driven	[pcs.]	1
Max. current load of the output 2 safety-related NO contacts	[A]	3
Non-safe inputs		4
Slide switch R/P		•
AS-i profile		S-7.A.E
Operating temperature	[°C]	-25...55
Protection		IP 20
Connection via Combicon screw terminals		•
Dimensions (H x W x D)	[mm]	108 x 25 x 105


Products

Type	Description	Order no.
------	-------------	-----------




SmartLine module

	Safe SmartLine output module 4 DI / 1 SO R	AC030S
--	---	---------------

AS-i safety monitor

	1-channel, enhanced, with integrated safe slave	AC031S
	2-channel, enhanced, with integrated safe slave	AC032S

Accessories

Type	Description	Order no.
	ASIMON V3.0 parameter setting software for safety monitors	E7040S
	Serial interface cable for the connection of safety monitors to a PC	E7001S
	Combicon connector with screw terminals	E70230