



# AS-i Safety at Work module with two safe inputs at one address



AS-Interface Safety at Work



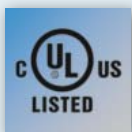
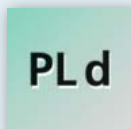
**2 safe digital inputs and  
2 standard outputs**

**Connection of 2 safe inductive  
sensors with OSSD outputs or  
light grids using only one As-i  
address**

**Certification to EN 62061 / SIL2  
and EN ISO 13849-1 / PL d**

**Precise and flexible quick  
mounting**

**The module is directly supplied  
from AS-Interface**



## Safe ClassicLine module

The safe input module allows safety-related components without integrated AS-Interface to be connected to the AS-i Safety at Work system.

## For components without AS-Interface

So, 2-channel inductive sensors with electronic OSSD outputs (e.g. GG712S) or light grids up to performance level d to EN 13849-1 can be connected to a single AS-i address using a 4-wire standard connection cable.

Two integrated outputs ensure the connection of two actuators, such as signal lamps or relays.

The safe sensors and the outputs are completely powered by AS-i.



### Advantages and customer benefits

Safe sensors with a current consumption below 200 mA can be operated on AC509S without auxiliary voltage. Connection is only made via the yellow AS-i flat cable.

### AS-i quick connection

The quick-connection technology provides a high degree of installation reliability and flexibility. The AS-i flat cable can be inserted from three different directions.

### On-site diagnosis

LEDs indicate the status of the inputs and outputs and the communication.

### Safety

The safe AS-i module AC509S detects safety-related switching states of two electronic contacts with two self-testing semiconductor outputs (OSSD) each.

The module meets the requirements up to SIL2 according to EN 62061 and PL d to EN 13849-1. In the event of a fault, the integrated communication monitoring switches the signal outputs off.

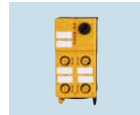
### Setup

The modules can be addressed either without voltage before mounting or when mounted and wired via the addressing socket. Only the AC1154 addressing unit plus the E70213 addressing cable are required.

### Products

Type	Description	Order no.
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#### Safe AS-i input module



2 safe 2-channel inputs,  
2 LED outputs and  
2 transistor outputs

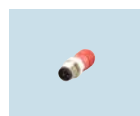
AC509S

### Technical data

Safe AS-i input module AC509S		
Operating voltage	[V DC]	26.5...31.6
Total current consumption	[mA]	≤ 280
Safe inputs		2 x 2
Sensor supply Inputs / outputs	[V DC]	via AS-i
Current rating	[mA]	200
AS-i profile		S-7.B.E
AS-i specification		2.11 + 3.0
Extended addressing mode		-
Ambient temperature	[°C]	-25...55
Protection		IP 67
Dimensions (H x W x D)	[mm]	103 x 45 x 45

### Accessories

Type	Description	Order no.
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Short-circuit bridging plug  
for unused safe inputs

E7008S

### Dimensions

