

ABB MACHINE SAFETY

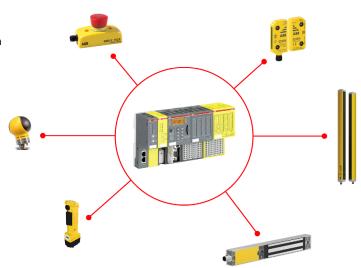
AC500-S safety PLC and ABB safety products

From simple to complex applications

AC500-S is the integrated safety PLC (SIL3, PL e/Cat 4) for safety applications in factory, machinery or process automation area with PROFINET/PROFIsafe communication to ABB robots, ABB drives and various 3rd party devices.

AC500-S safety PLC has extreme condition variants for extended temperature range (-40 to +70 °C including freezing point), vibrations, shock, etc.

AC500-S combined with the ABB machine safety sensors makes a well proven combination for total safety solutions from ABB.





Safety and protection

Safe solutions

Reaches the highest level of safety (up to PL e/Cat 4).

Verified and reliable safety solutions.

Extensive fault detection.

Several different types of safety sensors and devices available to suit all safety needs.



Cost effective solution

Flexibility in installation

Ability to do your safety sensor wiring on safety I/O terminal units even without safety I/O modules, which allows outsourcing wiring jobs and save your engineering costs.

Time savings on safety loop calculations due to common data base in ABB FSDT (Functional Safety Design Tool).



Easy to install

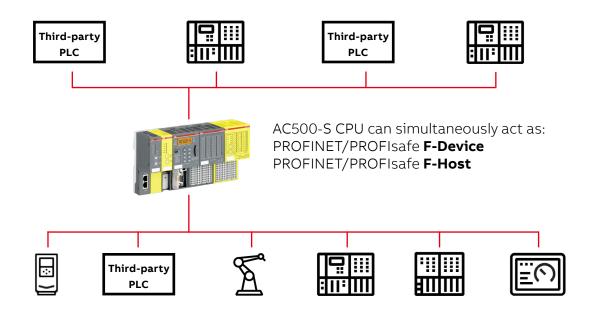
Developed with installation in mind

Easy connection with M12 connectors.

A wide range of adapters and connectors to simplify wiring.

Minimum amount of cabling simplifies installation.





AC500-S safety PLC

In order to supervise ABB safety sensors using AC500 the following units are required:

- AC500-S safety CPU (SM560-series)
- AC500 CPU (since AC500-S is not a stand-alone PLC)
- AC500-S safety I/O modules (to connect the safety devices)

Compatible sensor interface protocols

Dry contacts (potential free/zero volt)

AC500-S supports all ABB Electrification safety sensors with dry contacts.

OSSD

AC500-S supports all ABB Electrification safety sensors with OSSD interface.

Compatible safety products from ABB Electrification



For more information see:

https://new.abb.com/low-voltage/products/safety-products
https://new.abb.com/plc/programmable-logic-controllers-plcs/ac500-s

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