

TECH BRIEF: PROTECT SELECT - OEM



The PROTECT SELECT-OEM compact safety module offers greater flexibility during installation and integration of safety systems into machine functions, with the ease of using just a rotary dial for initializing.

Based on individual customer needs, Schmersal will develop safety monitoring logic to meet various application requirements. Up to 15 certified custom safety programs can then be easily selected from the custom PROTECT-SELECT-OEM. Each program can be further adapted if needed via the graphic color display and rotary switch.

Due to the preloaded custom programs, programming skills are not required as with a conventional safety programmable logic controller (PLC). Advanced safety functions such as drop-out delay, de-bouncing times, cross-circuit monitoring and many other parameters can be adjusted as well without secondary PLC software. In addition, each application program is provided with a separate port for an emergency stop function. Diagnostics of Safety Functions via UDS (Unidirectional synchronous Interface) allows advanced diagnostics feature to communicate diagnostics signal back to the higher level PLC.

Input/Output specifications:

- 18 safety inputs
- 4 safe semi-conductor outputs
- 2 safe relay outputs
- 4 optional signalling outputs

Features

Replaces up to eight safety relays up to PL e / SIL 3

Up to 15 selectable programs, configured in the factory

Compact safety technology in 52 mm housing, DIN rail mounting

Monitoring of all common safety sensors, such as

- Emergency stop
- Safety light curtains
- Safety switches
- Safety mats

Saves time and money during

- Project planning
- Wiring
- Programming
- Functional testing
- Maintenance

Perfect for mass-produced small machines

Multilingual menu navigation via color display

Text error and status messages

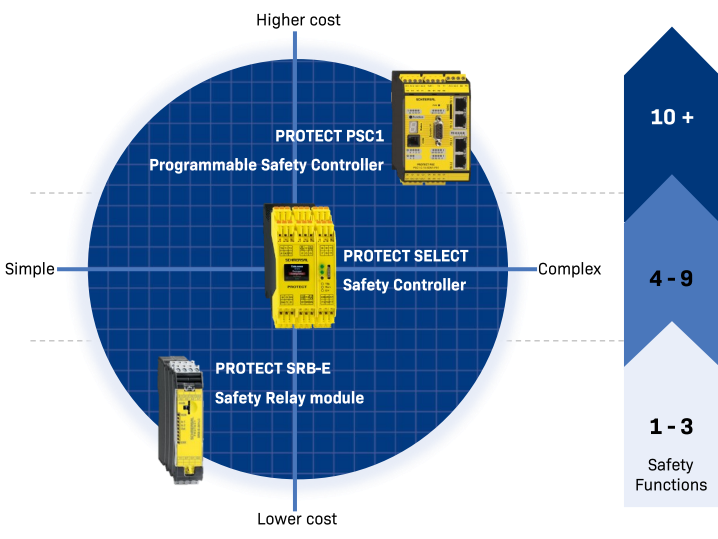
Program selection

Up to 15 preconfigured safety programs can be stored in each SELECT-OEM module. The programs can be selected and further modified via a rotary switch on the front. Program information, device status, warnings and errors are shown on the graphic color display in plain text for quick and easy diagnostics.



Comparison of PROTECT series controllers

based on complexity, cost, and number of safety functions:



Five Steps to a custom SELECT-OEM Module



1) First Visit

- Presentation of PROTECT SELECT OEM
- Description of features to customer
- Rough specification of application by customer
- Evaluation quantities and prices

2) Second Visit

- Determine number of programs
- Program logic concept
- Clarification of technical details
- Agreement on production quantities, schedule, and pricing

3) Programming Logic

- Custom part number created
- Programming of program logic at the factory, prototype produced

4) Validation Logic

- Safety evaluation of program logic
- Certification update
- Production approval

5) Order & Delivery

- Placement of blanket order, scheduling delivery
- Creation of order confirmation

Ordering Details

PROTECT SELECT-OEM- ①-②-③

- ① Connections
 - CC Cage Clamps
 - SK Screw terminals
- ② 9 digit customer number
- ③ 6 digit project number

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