# **GATEKEEPER**

Connect



Machine Guarding







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### Efficient Safety

Schmersal offers a unique portfolio which allow multiple electronic smart sensors to be wired together to create systems of various topologies from simple series connections to complexed zoning. The CSS and RSS range of electronic devices feature internal redundant self-diagnostics allowing them to be used in the highest level of safety such as PLe to ISO 13840 and SIL3 to IEC 61508. The devices featuring RFID technology also have the capability of individual actuator coding to meet the High coding requirements of ISO 14119. Options include non-locking, solenoid or magnetic locking, IP69K ratings for high pressure high temperature wash down, Ecolab approvals, and integrated door handle assemblies. Even though each device includes several LED's to easily and quickly diagnose the switch status, they also have the ability to be installed together seamlessly without degradations to its many features or safety rating.

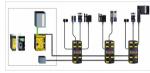




rieu together with an M12 cable arious application setups. Ele-ensor will have an LED status at eld-box M12 connection and be a diagnostics signal to a PLC. Its If for installation outside the con-



The active input expander allows connections of up to 4 switches per unit. Multiple SRB-E units can be series connected and easily configured via a rotary knob for various application setups. LED on its front cover provides information regarding switch outputs or errors. The 22.5mm with and din rail clip makes it an ideal installation within the control cabinet. More





Similar to the conventional diagnostics PFB, however since data packages are sent by a specific device address, only one I/O cable is needed for PLC communication.





The SD Gateways for the different fieldbus systems convert the serial diagnostics signal of the sensors and solenoid interlocks into the desired fieldbus protocol which include PROFIBUS DP-VO, PROFINET IO DeviceNet, EtherNet IP, EtherCAT CC-Link, CANopen, and Modbus/TCP





The latest generation of Schmersal safety programmable software controllers features module expansions to safety monitor up to 272 I/O points. Features include safe speed monitoring and safe communication between modules over Ethernet. Master modules also have an integrated Gateway for full er a preferred network. More

## Ask The Expert

### Q: What is the diff standard PLC?

A: A safety PLC differs from standard PLC due to its added safety which is achieved by redundancy and certifications. Unlike a standard PLC, a safety PLC will have redundant microprocessors which will imonitor both the inputs and outputs of the system. A failure detected with one of the microprocessors, an input or output device will not lead to the loss of the safety function. Also, unlike a standard PLC, the safety PLC must fulfill stringent requirements of current safety standards such is ISO 61508 which will classify the safety PLC under a certain Safety Integrity Level.

Have any questions related to re submit them to our expert at <u>dmu</u> be answered.