



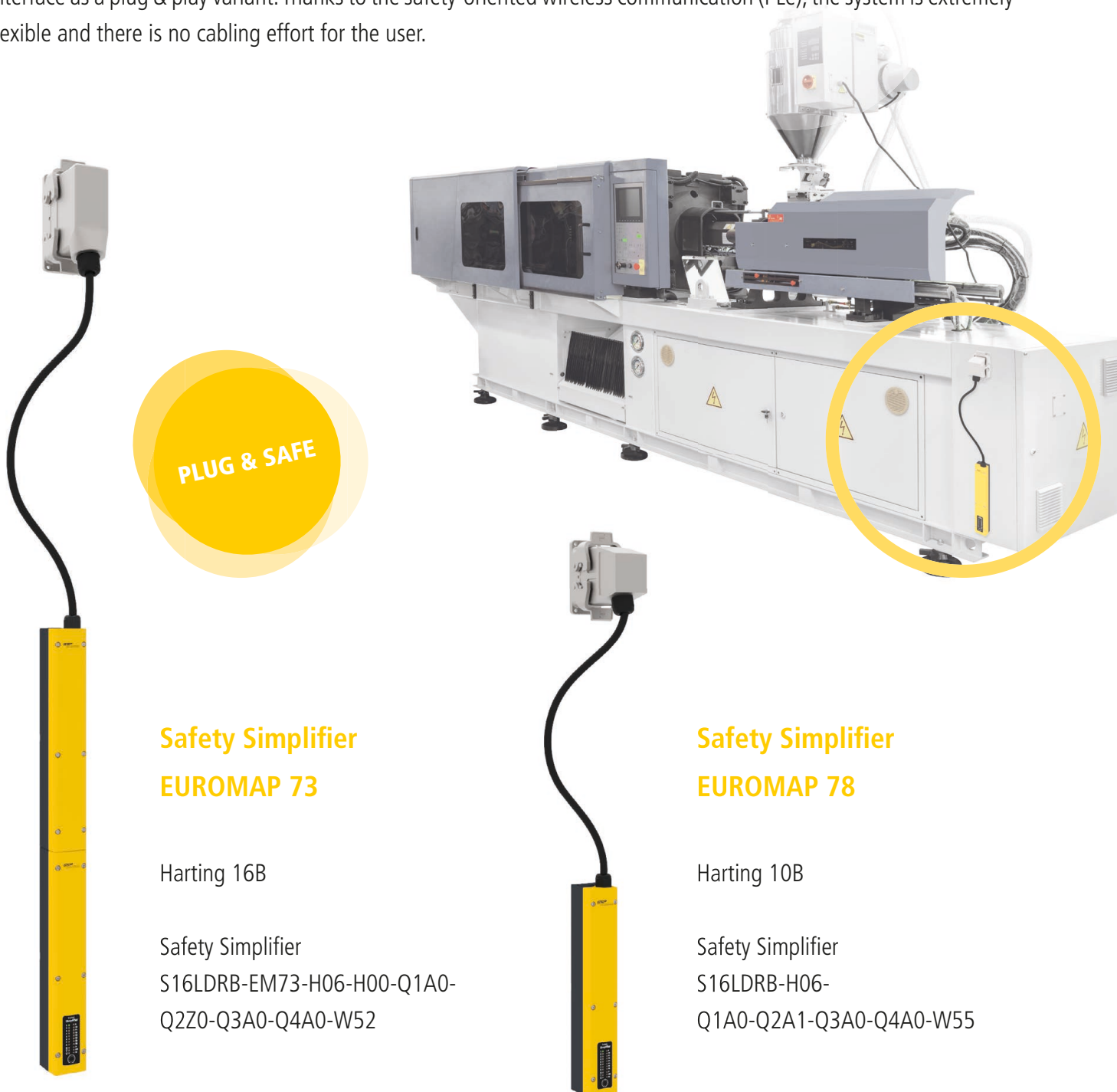
SOLUTIONS FOR INJECTION MOLDING MACHINES

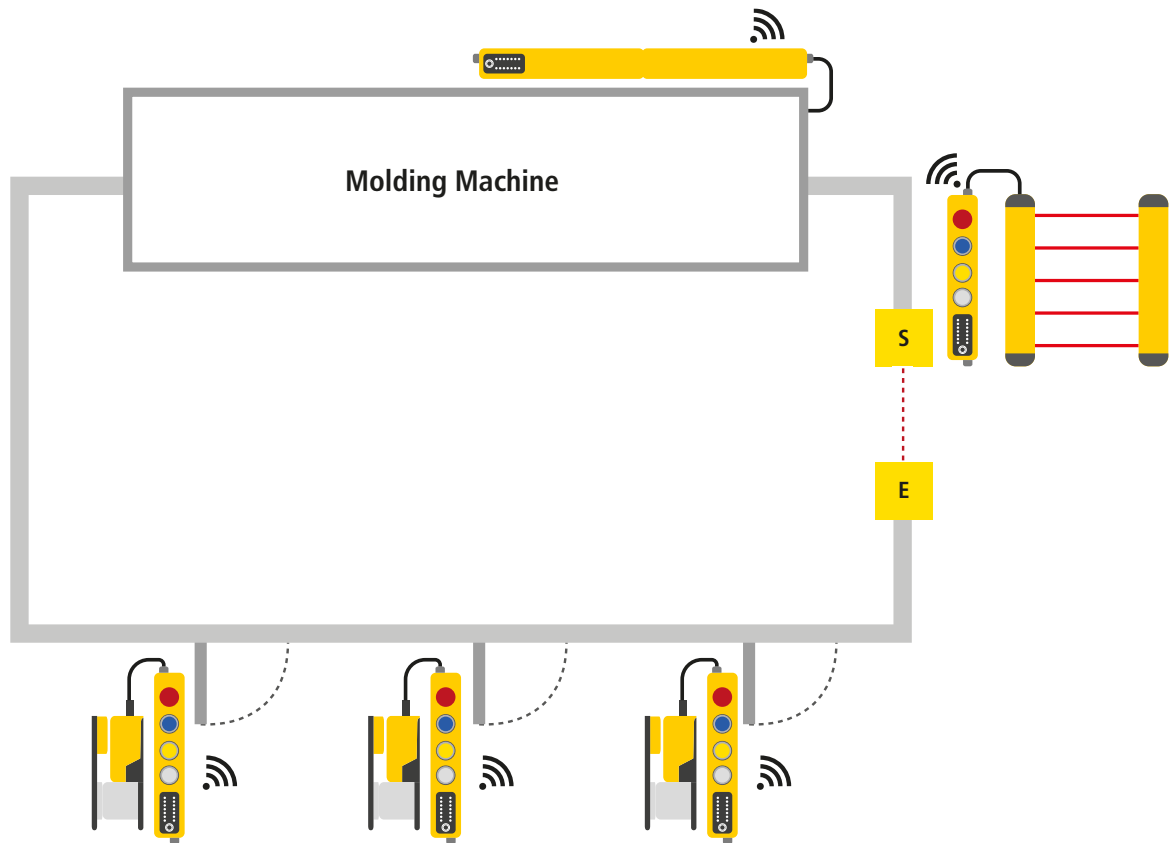
Flexible safety concepts for injection molding machines

Automated injection molding machines have particularly high demands on safety technology. A performance level of PLe and highly coded safety sensors or switches are the basic prerequisites for such a safety concept. Injection molding machine manufacturers use standardized **EUROMAP** interfaces between injection molding machines and external safety devices. The **EUROMAP 73** and **EUROMAP 78** are often used here.

The **EUROMAP 73** driven by DIN EN 201 requires three NO contacts and three NC contacts from the safety devices to integrate the injection molding machine. On the other hand, the newer **EUROMAP 78** uses intrinsically safe OSSD signals (Output Switching Signal Device).

With the Safety Simplifier, SSP offers a complete safety solution with an integrated **EUROMAP 73** or **EUROMAP 78** interface as a plug & play variant. Thanks to the safety-oriented wireless communication (PLe), the system is extremely flexible and there is no cabling effort for the user.





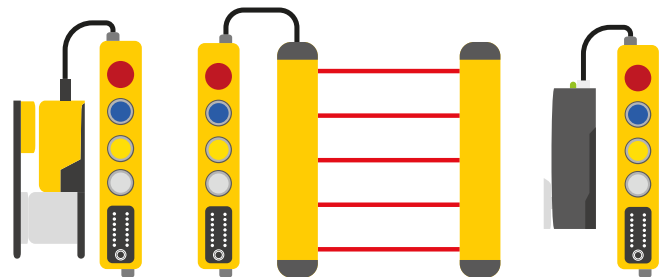
Example of an injection molding machine with Safety Simplifier EUROMAP 73/78 interface

Safety Simplifier EUROMAP 73/78 interface and safety controller

The Safety Simplifier with **EUROMAP 73** or **EUROMAP 78** connects all safety devices to the injection molding machine via an interface connector.

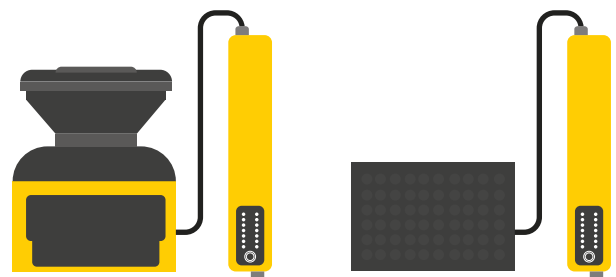
Safety devices can be freely combined

Regardless of whether a safety guard locking, a process guard locking or a safety light grid with muting is required for the safe automation of your injection molding machine. All units can be connected to the Safety Simplifier via M12 connector.



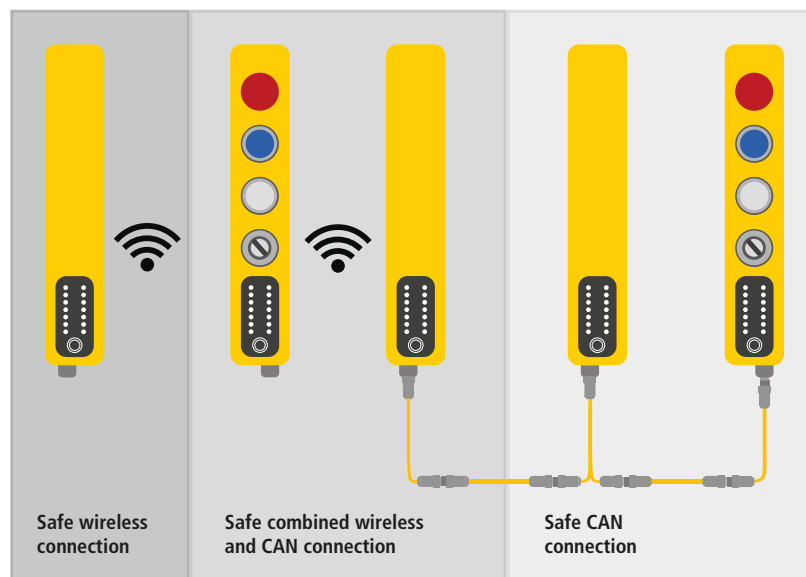
Safe rear step protection of plants

Safe contact mats or laser scanners can also be connected to the Safety Simplifier and evaluated. This is one of many possibilities to secure the rear area of an injection molding machine.



Safe Communication

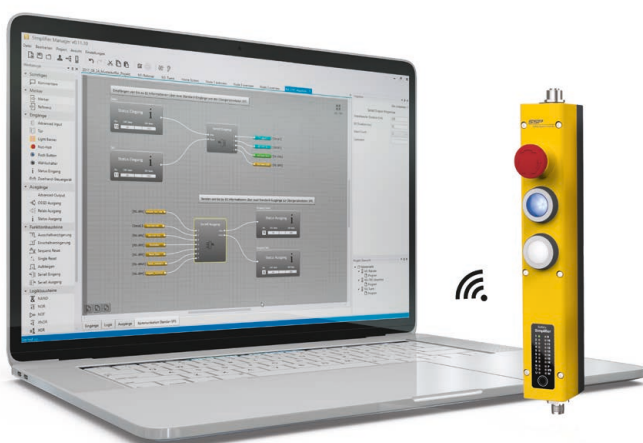
Up to 16 Safety Simplifiers can be linked via the secure wireless network. The repeater function implemented as standard ensures optimum process reliability. Each Safety Simplifier shares the available safety information with all other Safety Simplifiers within its range. Two modules can communicate at a distance of up to 100 meters. For longer distances or in unfavorable environmental conditions, additional Safety Simplifiers can act as repeaters or a wired CAN connection can be used. Combinations of wireless and CAN are also possible. A Safety Simplifier with the integrated **EUROMAP 73** or **EUROMAP 78** interface guides all safety links from the plant to the injection molding machine and acts as a safety controller.



Simplifier Manager Configuration Software

Simplifier Manager is the free software for the Safety Simplifier System

Program the safety functions in an easy and uncomplicated way using the Simplifier Manager configuration software. The functional modules for emergency stops, safety switches, light curtains, two-hand controls, mode selector switches and many other applications are available as standard.



- ✓ saves time and resources
- ✓ drag & drop function
- ✓ user-friendly, intuitive interface
- ✓ predefined functional modules for easy and fast programming
- ✓ wireless connection using the SRM-sticks or optionally via USB connection
- ✓ on-line mode for live diagnosis