



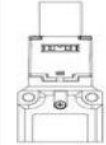
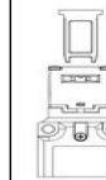




Casing	Polimeric casing	Rated impulsive withstand voltage Uimp	2,5 kV
Operating air temperature	-25°C ... +55°C	Conventional free air thermal current Ith	10A
Environmental designation	Type-1 enclosure	Rated operating current AC-15	24V – 10A   230V – 4A
Protection against electrical shock	Classe II	Rated operating current DC-13	24V - 4A
Max actuating speed	20 m/min	Switching frequency	600 cycles/h
IP protection degree	IP65	Load factor	0.5
Rated insulation voltage Ui	250V	Restistance between contacts	25 mΩ
Utilization category according to UL508	A300 – Q300	Terminal marking	According to IEC 60947-5-1
Connecting terminals	M3 screws with cable clamp	Mechanical durability	1 million of operations
Wiring dimensions*	0.34 ... 1.5 mm <sup>2</sup>	B10d	4 million of operations

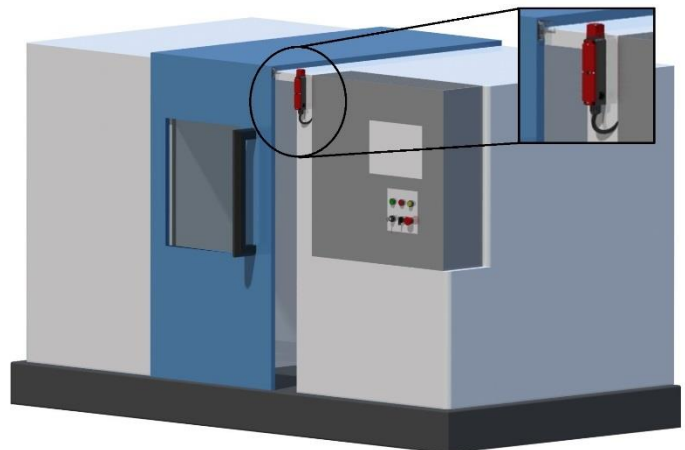
\*Use only copper conductors 60/70°C, AWG14-18, stranded and solid conductor. Clamps tightening torque 0.8Nm.

		Mechanical interlock			Electrical interlock *		
							
Actuator		Inserted & locked	Inserted & unlocked	Not inserted	Inserted & locked	Inserted & unlocked	Not inserted
Solenoid		Not-excited	Excited	-	Excited	Not-excited	-
Contact element	Actuation						
<b>FA1</b> 1 contact moved by actuator + 3 contacts moved by solenoid	Actuator Solenoid Solenoid Solenoid						
<b>FA2</b> 1 contact moved by actuator + 3 contacts moved by solenoid	Actuator Solenoid Solenoid Solenoid						
<b>FA3</b> 2 contact moved by actuator + 2 contacts moved by solenoid	Actuator Solenoid Solenoid Actuator						

\*Attention: In case of lack of voltage the device allows the immediate access to the protected area

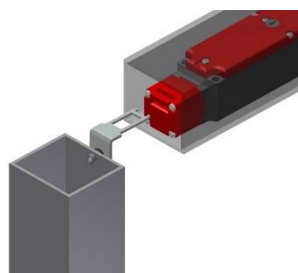
### Application and operation examples

This device is useful for guarantee the safety of the operator in case of machines where the hazardous conditions remains for a while time after the generation of the stop signal, because of the mechanical inertia of moving parts, components under pressure or with high temperatures. This device, when used individually, is not suitable for applications in machines where the operator can enter inside the protected area with his whole body, because of the possibility of accidental closing of the protection fences after the operator entry. In order to test the proper operations, verify the correct insertion of the actuator in the operating head and start the machine by closing the protection. In this conditions must be impossible to open the protection. With the machine stopped and disconnected protection, must be impossible to start the machine.



### Safety warnings

Safety switches perform a human protection function. The wrong installation can cause serious danger situations, as well as the manumission of the device and of the entire safety system. The device must never be evaded or manumitted in every way. To prevent easy tampering, we recommend to install the device in a place difficult to access by unauthorized personnel, by using physical impediments or tricks to make any tampering more difficult.



### Manual unlock device

The device is equipped with a manual unlock device with security screw. The arrow on the cover shows the device status. The unlock can be activated by unscrewing the security screw and turning of 180°. In order to avoid misuse the devices with the security screw sealed by paint.