

SAFETY SWITCHES

OVERVIEW

Safety Switches selection table

Selection table



Safety Switch for guarding the sliding door on a pick-and-place machine



Safety Position Switch on machine with a protective device and swivel joints – a typical application, e.g. in automated parts processing

Safety Switches are used for the position monitoring of moving protective devices, such as protective doors or flaps. Safety Switches without guard interlocking can always be used when the dangerous movement has stopped before the entering person can reach the point of operation. The Leuze electronic Safety Switches portfolio also includes Safety Position Switches (S300) and Safety Hinge Switches (S400) and therefore provides the perfect solution for many different applications.

Selection of Leuze electronic Safety Switches from left to right: S20Normal Duty Safety Switch, S300 Safety Position Switch, S200 Heavy Duty Safety Switch, S400 Safety Hinge Switch



Description	Features, type-dependent					Article	Page
	Plastic housing	Metal housing	Safety Switches contact set	NC = NC contact for safety circuit	NO = NO contact for signal circuit		
Safety Switch with separate actuator S20 series	●		2NC ⊖	1) With step function against contact bounces 2) Second hinge available separately		S20-P3C1-M20-FH	356
	●		1NC ⊖ + 1NO			S20-P1C1-M20-FH	356
	●		1NC ⊖ + 1NO			S20-P1C3-M20-LH	356
	●		2NC ⊖ + 1NO			S20-P4C1-M20-FH	356
	●		2NC ⊖ + 1NO			S20-P4C3-M20-LH	356
Safety Switch with separate actuator S200 series		●	2NC ⊖			S200-M3C1-M20	368
		●	1NC ⊖ + 1NO			S200-M1C1-M20	368
		●	2NC ⊖ + 1NO			S200-M4C1-M20	368
Safety Position Switch S300 series		●	1NC <sup>1)</sup> ⊖ + 1NO			S300-M0C3-M20-15	378
		●	2NC ⊖ + 1NO			S300-M13C3-M20-15	378
		●	1NC <sup>1)</sup> ⊖ + 1NO			S300-M0C3-M20-31	378
		●	2NC ⊖ + 1NO			S300-M13C3-M20-31	378
Safety Hinge Switches S400, S410 series		●	2NC ⊖ + 1NO			S400-M4CB2-B <sup>2)</sup>	384
		●	2NC ⊖ + 1NO			S400-M4M12-B <sup>2)</sup>	384
		●	2NC ⊖ + 1NO			S400-M4CB2-T <sup>2)</sup>	384
		●	2NC ⊖ + 1NO			S400-M4M12-T <sup>2)</sup>	384
		●	2NC ⊖ + 1NO			S410-M1CB2-B <sup>2)</sup>	384
		●	2NC ⊖ + 1NO			S410-M1M12-B <sup>2)</sup>	384

1) With step function against contact bounces  
2) Second hinge available separately

SAFETY LOCKING DEVICES

OVERVIEW

Safety Locking Devices selection table

Selection table



Safety Locking Device as access guarding



Safety Locking Device on a metal processing center with stopping times

Safety Locking Devices keep the protective door locked and therefore prevent inadmissible access by people. The access to the danger zone is only released by an electric signal when either the dangerous movement has stopped (personnel protection) or an uninterruptible work process has been finished (machine protection). All Leuze electronic Safety Switches and Locking Devices are configured with their robust design for use in tough industrial applications and prove their value under the most demanding operational conditions.

The Leuze electronic Safety Locking Devices completely cover the entire spectrum from normal to very high requirements (from left to right): L10, L100, L200



Description	Features, type-dependent										Article	Page
	Plastic housing	Metal housing		Locking, manual	Spring force-actuated guard interlocking <sup>1)</sup>	Auxiliary unlocking, manual	Magnet-actuated guard interlocking <sup>2)</sup>	Safety Locking contact set NC = NO =	Door opener contact set NC = NO =			
Safety Locking Device L10 series	●			●				2NC ⊕			L10-P2C1-M20-SB20	396
	●	●		●				2NC ⊕			L10-M2C1-M20-SB20	396
	●			●				2NC ⊕ + 1NO			L10-P3C1-M20-SB20	396
		●						2NC ⊕ + 1NO			L10-M3C1-M20-SB20	396
Safety Locking Device L100 series	●				●	●		1NC ⊕ + 1NO	1NC ⊕		L100-P3C3-M20-SLM24	402
	●						●	1NC ⊕ + 1NO	1NC ⊕		L100-P3C3-M20-MLM24	402
	●				●	●		2NC ⊕	1NC ⊕		L100-P4C3-M20-SLM24	402
		●			●	●		2NC ⊕	1NC ⊕ + 1NO		L200-M1C3-SLM24-L2G	410
Safety Locking Device L200 series		●					●	2NC ⊕	1NC ⊕ + 1NO		L200-M1C3-MLM24-L2G	410
		●			●	●		2NC ⊕	1NC ⊕ + 1NO		L200-M1C3-SLM24-PB-L2G	410
		●			●	●		2NC ⊕	1NC ⊕ + 1NO			

1) Closed current principle, personnel protection  
2) Closed current principle, personnel protection