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Original

About this document

These operating instructions serve as a supplement to the operating instructions for MZM 100 / MZM 100 B. Deviating or additional instructions follow.

Product description

The safety switches with interlock function MZM 100 B-…-2930 are a special version for process protection. The differences compared to the standard device MZM 100 - B are described below.

Unlike MZM 100 B, the special version MZM 100 B-…-2930 only enable the safety outputs through triggering of the solenoid control (IN).

There is no time of the tampering protection of 10 minutes after forcible interruption of safety switch and actuator.

Diagnostic function of variant MZM 100 B-ST.-1P2P...-2930

System condition	Solenoid control	LED			Safety outputs	Diagnostic output OUT
	IN	green	red	yellow	Y1, Y2	-1P2PW / -1P2PW2 [3]
Safety guard open	0 V	On	Off	Off	0 V	0 V
Safety guard closed, actuator in	0 V	On	Off	Flashes	0 V	24 V
Safety guard closed and locked	24 V	On	Off	On	24 V	24 V
Solenoid interlock cannot be locked. Safety guard not correctly closed or magnet soiled	24 V	On	Off	Flashes	0 V	0 V
Error warning[1], Safety guard locked	24 V	On	Flashes [2]	On	24 V	0 V
Error	0 V / 24 V	On	Flashes [2]	Off	0 V	0 V

Function of the visual diagnostic LED's, the serial status signals and the safety outputs of the MZM 100 B-ST.-SD2P...-2930 by means of an example

System condition	LED			Safety outputs	Response byte bit n°:							
	green	red	yellow	Y1, Y2	7	6	5	4	3	2	1	0
Safety guard open	On	Off	Off	0 V	0	0	0	X	0	0	0	0
Safety guard closed, actuator in	On	Off	Flashes	0 V	0	0	0	X	0	0	1	0
Safety guard closed and locked	On	Off	On	24 V	0	0	0	X	0	1	1	1
Solenoid interlock cannot be locked. Safety guard not correctly closed or magnet soiled	On	Off	Flashes	0 V	0	0	0	X	0	0	0/1[4]	0
Error warning[1], Safety guard locked	On	Flashes [2]	On	24 V	0	1	0	X	0	1	1	1
Error	On	Flashes [2]	Off	0 V	1	0	0	X	0	X	X	0

[1] after 30 min -> fault
[2] refer to flash code
[3] -1P2PW2: Version with latching force -R/-RE checks if clamping force can be reached (door can be locked)
[4] Version with latching force -R/-RE: Bit 1 = 0
Version without latching force: Bit 1 = 1

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