REER

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SV MR0

safety speed monitoring interface

Short form

Stand-alone safety speed monitoring device

Controls zero, minimum or maximum speed

Features

- Interface with relay outputs with guided contacts
- Manual or Automatic restart selectable.
- 2 inputs for PNP proximity switch
- EDM feedback input for external contactors monitoring.
- Enable inputs to activate or deactivate the interface
- Faults signalled by LED “Fault” and a PNP system status output.
- PNP status output indicating overspeed or underspeed thresholds crossing.





Key Features

Safety speed monitoring interfaces. Safety level up to PL e - SIL 3.

SV MR0 - Safety speed monitoring relay for Overspeed and Zero speed control.

SV MR0 U - Safety speed monitoring relay for Underspeed control.

Certificazioni

SAFETY LEVEL

SIL 3

SIL 3 - SILCL 3
PL e - Cat. 4

safety speed monitoring

Technical features

Model	SV MR0	SV MR0 U
Ordering code	1100078	1100088
Safety level	Up to PL e, Cat. 4, SIL 3, SILCL 3	
Safety relay outputs	2 NO - 6A 250 VAC	
Overspeed status output	PNP - 100 mA 24 VDC	
System status output	PNP - 100 mA 24 VDC	
Power supply	24 VDC ± 20%	
Electrical connections	Removable terminal blocks, screw contacts	
Start/Restart	Automatic/Manual	
Maximum input frequency (Hz)	2000	
Selectable frequency threshold (Hz)	0,5 ... 990	
Selectable frequency threshold (rpm)	10 ... 49500 equivalent to 0,17 ... 825 Hz	
Hysteresis	5%	
External Device Monitoring	Yes	
Signalling	LED indicators for status and diagnostic	
Protection rating	IP20 for housing - IP2X for terminal block	
Operating temperature	-40 ... +55 °C	
Fastening	DIN rail according to EN 50022-35 standard	
Dimensions h x w x d (mm)	108 x 22,5 x 114,5	

Switches for adjusting the speed threshold



P1 selector tenths

P2 selector units

P3 selector multiplier

Multipliers "Hz" (0,5 ... 990 Hz)	Multipliers (1 ... 49500 rpm)
1 - x 0,5	1 - x 1 (min 10 rpm)
2 - x 1	2 - x 10
3 - x 5	3 - x 50
4 - x 10	4 - x 100
	5 - x 500

P1 and P2 selectors allow to set numeric values from 01 to 99.

P2 selector allows to set a multiplier to apply to the numeric value obtained with the first two. The multiplier can be set in "Hz" or in "rpm" (round per minute).

Note: Only when the proximities switches sensor show a single pulse per turn, the value in "rpm" corresponds to the value in "ipm" (pulse per minute).

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since 1959

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