



safety speed monitoring interface

short form

Stand-alone safety speed monitoring

Controls zero, minimum or maximum speed

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.

Both modules integrate:

Manual or Automatic restart selectable.

EDM feedback input for external contactors monitoring.

Enable inputs used, for instance, when monitoring the same axis, in different working phases, with more SV MR0 configured with different thresholds.

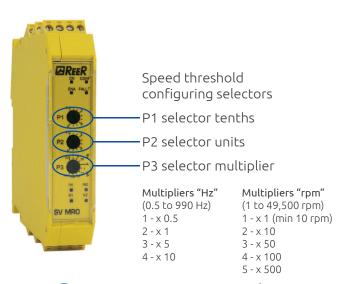
Faults signalled by LED "Fault" and a PNP system status output.

PNP status output indicating overspeed or underspeed thresholds crossing.

Both modules have 2 inputs for PNP proximities switches.

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).





safety speed monitoring

www.reersafety.com

ı device



Safety levels

SIL 3 - SILCL 3 - PL e - Cat. 4

2006/42/EC: "Machine Directive".

2004/108/EC: "Electromagnetic Compatibility Directive".

2006/95/EC: "Low Voltage Directive".

EN ISO 13849-1:2008 "Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design".

EN 61508-1:2010 "Functional safety of electrical/electronic programmable electronic safety related systems - General requirements".

EN 61508-2:2010 "Functional safety of electrical/electronic/programmable electronic safety related systems - Requirements for electrical/electronic/programmable electronic safety-related systems".

EN 61508-3:2010 "Functional safety of electrical/electronic programmable electronic safety related systems: Software requirements".

EN 61508-4:2010 "Functional safety of electrical/electronic programmable electronic safety related systems - Definitions and abbreviations".

EN 62061:2005 "Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems".

Technical features

Model Ordering code

Safety level

Safety relay outputs Overspeed status output System status output

Power supply

Electrical connections

Start/Restart

Maximum input frequency (Hz) Selectable frequency threshold (Hz)

Selectable frequency threshold (rpm)

Hysteresis

External Device Monitoring

Signalling

Protection rating

Operating temperature

Fastening

Dimensions h x w x d (mm)

SV MR0 SV MR0 U 1100088 1100078

Up to PL e, Cat. 4, SIL 3, SILCL 3

2 NO - 6A 250 VAC

PNP - 100 mA 24 VDC

PNP - 100 mA 24 VDC

24 VDC ± 20%

Removable terminal blocks, screw contacts

Automatic/Manual

2000

0.5 ... 990

10 ... 49500 equivalent to 0,17 ... 825 Hz

Yes

LED indicators for status and diagnostic IP20 for housing - IP2X for terminal block

-40 ... +55 °C

DIN rail according to EN 50022-35 standard

99 x 22,5 x 114















More than 60 years of quality and innovation

Founded in Turin, Italy in 1959, ReeR distinguished itself for its strong commitment to innovation and technology.

A steady growth throughout the years allowed ReeR to become a point of reference in the safety automation industry at a worldwide level.

The Safety Division is in fact today a world leader in the development and manufacturing of safety optoelectronic sensors and controllers.

ReeR is ISO 9001, ISO 14001 and ISO 45001 certified.



ReeR SpA

Via Carcano, 32 10153 Torino, Italy

T +39 011 248 2215 F +39 011 859 867

www.reersafety.com | info@reer.it













Issue 2 - Rev. 1.3 June 2020 8946241 Brochure SV MR0 - English

Printed in Italy

