



Your future's safe!



INTERFACES
safety interfaces and relays
product catalogue



SR ONE

Type 4 interface for OSSD output devices.
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SRM ONE M

Type 4 interface with integrated Muting
for safety light curtains. See [pagepagina 10](#)



SRT

PL e safety Interface for two-hand control
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SR SELECT

Multifunction safety relay.
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SR E4 - SR E4R

PL e safety interfaces for emergency stop buttons
and safety switches
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SR X

Type 2 control unit for ReeR Ilion and Ulisse photocells.
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SR XM

Type 2 control unit with integrated Muting for ReeR Ilion
and Ulisse photocells. See [page pagina 7](#)



SR ZERO - SR ZERO A

Safety relay. See [pagepagina 8](#)



SV MR0 - SV MR0 U

PL e / SIL 3 safety speed monitoring interface
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LIVELLO DI SICUREZZA

TIPO 4

SILCL 3
PL e - Cat. 4

Interface module for OSSD output devices. Safety light curtains: EOS4 A, EOS2 A, Admiral AD, Admiral AX BK, Vision V. Safety switches: Magnus RFID. Safety laser scanner: UAM. Includes self-testing solid state safety outputs.

- Guided-contact safety relays
- Start/Restart interlock
- EDM Feedback input for extra external contactors monitoring



LIVELLO DI SICUREZZA

TIPO 4

SILCL 3
PL e - Cat. 4

Interface module for safety light curtains EOS4, EOS2, Admiral, Vision (any resolution and heights), safety laser scanner.

- Guided contact safety relays
- Start/Restart interlock
- EDM Feedback input for extra external contactors monitoring
- Muting Time-out selectable
- Integrated Override with 2 operating modes selectable
- Muting Enable input



TYPE 4 INTERFACE FOR OSSD OUTPUT DEVICES

TECHNICAL FEATURES

SR ONE

Safety relay outputs	2 NO - 2 A 250 VAC
Status output	PNP – 100 mA at 24 VDC
Response time (ms)	≤ 20
Start/Restart command according to IEC 61496-1	Manual or automatic Start/Restart selectable on terminal block
Status display	LED indication of input/output status and diagnosis
Power supply (VDC)	24 ± 20%
Electrical connections	On terminal blocks
Operating temperature (°C)	0 ... +55
Protection rating	IP20 for housing IP2X for terminal blocks
Fastening	DIN rail fastening according to EN 50022-35 standard
Dimensions h x w x d (mm)	99 x 22,5 x 114

SR ONE M

Like above plus the following characteristics:

Inputs for Muting sensors	2 inputs 0 or 24 VDC - PNP or relay - dark-on
Muting Enable input	0 or 24 VDC – PNP or relay
Muting lamp output	24 VDC; 0,5 ... 5 W
Muting time-out	30 sec. or infinite, selectable
Override	2 operating modes selectable: - manual action with hold to run - automatic with pulse command
Override time-out (min)	15
Dimensions h x w x d (mm)	99 x 35 x 114

APPROVALS

- 2006/42/CE "Machine Directive"
- 2014/30/EU "Electromagnetic Compatibility Directive"
- 2011/65/EU "RoHS - Guide"
- IEC 61496-1: 2020 (Type 4)
- EN61508:2010 (SIL3)
- IEC 62061 + A2:2015 (SILCL3)
- EN ISO 13849-1: 2015 (PL e)
- EN 55032:2015
- EN IEC 63000:2018
- UL (C+US) mark for USA and Canada
- UKCA declaration

PART NUMBERS

SR ONE with screws terminals block: **1330900**

SR ONE C with clamp terminal block: **1330811**

SR ONE M with screws terminals block: **1330904**

SR ONE MC with clamp terminal block: **1330811**



LIVELLO DI SICUREZZA

SIL 3

SIL3 - SILCL 3
PL e - Cat. 4

The new SR SELECT allows four different operating modes offering the possibility to connect and control different types of safety devices, including:

- Safety Light Curtains
- Solid-State-Output Devices (i.e. RFID safety switches)
- Dual-Channel Emergency Stops
- Two-Hand Controls and Type 2 Safety Photocells.

OPERATING MODES

Selectable via the Rotary Switch.

Rotary Switch position	Operating mode	Operating function
0	Prog.	Programming mode start
1	1A	OSSD double input, automatic restart mode
2	1C	OSSD double input, monitored restart mode
3	2A	Gate monitoring/Emergency stop function, automatic restart mode
4	2M	Gate monitoring/Emergency stop function, manual restart mode (not monitored)
5	2C	Gate monitoring/Emergency stop function, monitored restart mode
6	3A	Two-hand control 2 NO contacts, automatic restart mode
7	3C	Two-hand control changeover contact, monitored restart mode
8	4A	Type 2 photocells control, automatic restart mode
9	4C	Type 2 photocells control, monitored restart mode

Programming Rotary Switch



MULTIFUNCTION SAFETY RELAY

TECHNICAL CHARACTERISTICS

Power supply (VDC)	24 ± 20%
Power requirement (W)	5 max.
Relay output	2 NA - 6A; 250 Vca
System status output	PNP - 100 mA; 24 Vcc
Response time (ms)	≤ 20
Operating modes	Automatic, Monitored or Manual (selectable via rotary switch)
External relay control EDM	Series of contacts NC (20 mA; 24 VDC)
Connections	Terminal block with protection against reversal of polarity
LED status indicators	Input - Output - Fail
Length of connections (m)	100 Max.
Operating temperature (°C)	-30 ... +55
Protection rating	Enclosure IP 20 Terminal block IP 2X
Fastening	Fast attachment to rail according to EN 50022-35
Dimensions (h x w x d) (mm)	99 x 22,5 x 114,5
Weight (g)	150
B10d	800.000
Device lifetime (anni)	20

PART NUMBER

SR Select with screw terminal block: **1330941**
SR Select C with clamp terminal block: **1330813**

APPROVALS

- 2006/42/CE "Machine Directive"
- 2014/30/EU "Electromagnetic Compatibility Directive"
- 2011/65/EU "RoHS - Guide"
- IEC 61496-1: 2020 (Type 4)
- EN61508:2010 (SIL3)
- IEC 62061 + A2:2015 (SILCL3)
- EN ISO 13849-1: 2015 (PL e)
- EN 55032:2015
- EN IEC 63000:2018
- UL (C+US) mark for USA and Canada
- UKCA declaration





LIVELLO DI SICUREZZA

PL e

Cat. 4
Tipo III C (EN 574)

Safety relay for two-hand control.

Input with 3 or 4 contacts for two-hand control unit.

Certified as Type III C according to the EN 574 standard, monitors the simultaneity between the two inputs (< 0.5 sec).

- Guided-contact safety relays
- EDM Feedback input for external contactors monitoring
- Can be used up to Cat. 4, PL e

APPROVALS

- 2006/42/CE "Machine Directive"
- 2014/30/EU "Electromagnetic Compatibility Directive"
- 2011/65/EU "RoHS - Guide"
- IEC 61496-1: 2020 (Type 4)
- EN61508:2010 (SIL3)
- IEC 62061 + A2:2015 (SILCL3)
- EN ISO 13849-1: 2015 (PL e)
- EN 55032:2015
- EN IEC 63000:2018
- UL (C+US) mark for USA and Canada
- UKCA declaration

PL E SAFETY INTERFACE FOR TWO-HAND CONTROLS

CARATTERISTICHE TECNICHE

Safety relay outputs	2 NO (6 A 240 VDC) Each NO safety output line is interrupted twice by the two relays
Response time (ms)	≤ 30
Status display	LED indicators for status and supply diagnostic: power, channel 1 and channel 2
Power supply (VDC)	24 -15% +10%
Electrical connection	On terminal block
Operating temperature (°C)	-30 ... +55
Protection rating	IP40 for housing IP20 for terminal block
Fastening	DIN rail fastening according to EN 50022-35 standard
Dimensions h x w x d (mm)	99 x 22,5 x 114

PART NUMBER

SR T with screw terminal block: **1330805**

SR TC with clamp terminal block: **1330810**





LIVELLO DI SICUREZZA

PL

e

SIL 3 - SIL CL 3
Cat. 4

Safety relay for emergency stop buttons and safety switches monitoring.

- Guided-contact safety relays
- EDM Feedback input for external contactors monitoring

Start/Restart can be:

- Automatic/Manual (SR E4)
- Manual Monitored (SR E4R)

Both models can be used up to safety Category 4, PL e according to EN ISO 13849-1.

APPROVALS

- 2006/42/CE "Machine Directive"
- 2014/30/EU "Electromagnetic Compatibility Directive"
- 2011/65/EU "RoHS - Guide"
- IEC 61496-1: 2020 (Type 4)
- EN61508:2010 (SIL3)
- IEC 62061 + A2:2015 (SILCL3)
- EN ISO 13849-1: 2015 (PL e)
- EN 55032:2015
- EN IEC 63000:2018
- UL (C+US) mark for USA and Canada
- UKCA declaration

PL E SAFETY INTERFACES FOR EMERGENCY STOP BUTTONS AND SAFETY SWITCHES

TECHNICAL FEATURES

Safety relay outputs	2 NO (6 A 240 VAC) Each NO safety output line is interrupted twice by the two relays
Response time (ms)	≤ 50
Start/Restart	SR E4 - Automatic/Manual SR E4C - Manual monitored
Status display	LED indicators for status and supply diagnostic: power, channel 1 and channel 2
Power supply (VDC)	24 (±10%)
Electrical connection	On terminal block
Operating temperature (°C)	-25 ... +55
Protection rating	IP40 for housing IP20 for terminal block
Fastening	DIN rail fastening according to EN 50022-35 standard
Dimensions h x w x d (mm)	99 x 22,5 x 114

PART NUMBERS

SR E4 with screw terminal block: **1330803**
SR E4C with clamp terminal block: **1330808**

SR E4R with screw terminal block: **1330804**
SR E4RC with clamp terminal block: **1330809**





LIVELLO DI SICUREZZA

TIPO 2

SILCL 1
PL c - Cat. 2

SR X control unit for safety photocells Ilion and Ulisse, which can be combined to form a Type 2 safety system. Up to 4 photocells may be connected.

- Guided-contact safety relays
- Start/Restart interlock
- EDM Feedback input for external contactors monitoring
- Self test every 5 seconds



LIVELLO DI SICUREZZA

TIPO 2

SILCL 1
PL c - Cat. 2

SR XM control unit with integrated Muting functions. For safety photocells Ilion and Ulisse. Can be combined to form a type 2 safety system. Up to 4 photocells may be connected.

- 2 sensor Muting logics
- Muting Time-out selectable
- Integrated Override with selectable 2 mode operation
- Muting Enable input
- Start/Restart interlock
- EDM Feedback input for extra external contactors monitoring
- Self test every 5 seconds

PART NUMBERS

SR X with screw terminal block: 1201710

SR X with clamp terminal block: 1201714

SR XM with screw terminal block: 1201711

SR XMC with clamp terminal block: 1201715

TYPE 2 CONTROL UNIT FOR ILION AND ULISSE PHOTOCELLS

TECHNICAL FEATURES

SR X

Safety relay outputs	2 NO (6 A 250 VAC
Status output	PNP - 100 mA at 24 VDC
Response time (ms)	≤ 30
Start/Restart command according to IEC 61496-1	Manual or automatic Start/Restart selectable on terminal block
External Device Monitoring	External relay control feedback input, selectable
Status display	LED indication of input/output status and diagnosis
Power supply (VDC)	24 ± 20%
Electrical connections	On terminal block
Operating temperature (°C)	0 ... +55
Protection rating	IP20 for housing IP2X for terminal block
Fastening	DIN rail fastening according to EN 50022-35 standard
Dimensions h x w x d (mm)	99 x 22,5 x 114

SR XM

Like above plus the following characteristics:

Inputs for Muting sensors	2 inputs 0 or 24 VDC – PNP or relay – dark-on
Muting Enable input	0 or 24 VDC – PNP or relay
Muting lamp output	24 VDC; 0,5 - 5 W
Muting time-out	30 sec. or infinite, selectable
Override	2 operating modes selectable: manual action with hold to run or automatic with pulse command
Override time-out (min)	15
Status display	LED indications of input/output status, Muting sensor inputs, diagnosis
Dimensions h x w x d (mm)	99 x 35 x 114

APPROVALS

- 2006/42/CE "Machine Directive"
- 2014/30/EU "Electromagnetic Compatibility Directive"
- 2011/65/EU "RoHS - Guide"
- IEC 61496-1: 2020 (Type 4)
- EN61508:2010 (SIL3)
- IEC 62061 + A2:2015 (SILCL3)
- EN ISO 13849-1: 2015 (PL e)
- EN 55032:2015
- EN IEC 63000:2018
- UL (C+US) mark for USA and Canada
- UKCA declaration





LIVELLO DI SICUREZZA

SIL 3

SIL3 - SILCL 3
PL e - Cat. 4

Interface relay modules for safety light curtains with feedback input for EDM, such as EOS4 X, Admiral AX, EOS2 X, Vision VX/VXL/MXL and Janus.

- Guided-contact safety relays
- Additional NC contact line for the monitoring by light curtain (EDM)

SR ZERO and SR ZERO/A modules can only be connected to safety sensors equipped with feedback input for monitoring external relays (EDM): EOS4 X, EOS2 X, Janus, Admiral AX (excluding AX BK models with Blanking), Pharo and Vision VX, VXL and MXL ranges.

SAFETY RELAY MODULES FOR DEVICES WITH INTEGRATED FEEDBACK INPUT FOR EDM

TECHNICAL FEATURES

Safety relay outputs	SR ZERO 2 NO + 1 NC - 2 A 250 VAC Each NO safety output line is interrupted twice by the two relays
	SR ZERO A 2 NO - 2 A 250 VAC
Response time (ms)	≤ 20
Power supply (VDC)	24 ± 20%
Electrical connections	On terminal block
Operating temperature (°C)	0 ... +55
Protection rating	IP20 for housing IP2X for terminal block
Fastening	DIN rail fastening according to EN 50022-35 standard
Dimensions h x w x d (mm)	99 x 22,5 x 114,5

PART NUMBERS

SR ZERO with screw terminal block: **1330801**
SR ZERO C with clamp terminal block: **1330806**

SR ZERO A with screw terminal block: **1330802**
SR ZERO AC with clamp terminal block: **1330807**





LIVELLO DI SICUREZZA

SIL 3SIL3 - SILCL 3
PL e - Cat. 4

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:

- Selectable manual or Automatic restart
- EDM feedback input for external contactors monitoring
- Enable inputs used, for instance, when monitoring the same axis, in different working phases, with more modules configured with different thresholds
- Faults are signalled by LED "Fault" and a PNP system status output. PNP status output indicating overspeed or underspeed thresholds crossing
- 2 inputs for PNP proximities switches
- 3 front panel selectors allow configuration of the speed threshold

PL E - SIL 3 SAFETY SPEED MONITORING INTERFACE

TECHNICAL DATA

Overspeed Underspeed status output	PNP - 100 mA 24 VDC
Power supply	24 VDC $\pm$ 20%
Safety relay outputs	2 NO - 6A 250 VAC
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
Status display	LED indicators for status and diagnostic
Protection rating	IP20 for housing IP2X for terminal block
Operating temperature	-40 ... +55 °C
Fastening	DIN rail fastening according to EN 50022-35 standard
Dimensions h x w x d (mm)	108 x 22,5 x 114,5

PART NUMBERS

SV MR0: 1100078

SV MR0U: 1100088

SWITCHES FOR ADJUSTING THE SPEED THRESHOLD

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).

Multipliers "Hz"
(0,5 ... 990 Hz)

1 - x 0,5
2 - x 1
3 - x 5
4 - x 10

Multipliers "rpm"
(1 ... 49500 rpm)

1 - x 1
2 - x 10
3 - x 50
4 - x 100
5 - x 500

P1 selector tenths
P2 selector units
P3 selector multiplier



APPROVALS

- 2006/42/EC: "Machine Directive"
- 2014/30/EU: "Electromagnetic Compatibility Directive"
- 2014/35/EU: "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 (SIL3) "Functional safety of electrical/electronic programmable electronic safety related systems - General requirements"
- EN 61508-2:2010 (SIL3) "Functional safety of electrical/electronic/programmable electronic safety related systems - Requirements for electrical/electronic/programmable electronic safety-related systems"
- EN 61508-3:2010 (SIL3) "Functional safety of electrical/electronic programmable electronic safety related systems: Software requirements"
- EN 61508-4:2010 (SIL3) "Functional safety of electrical/electronic programmable electronic safety related systems - Definitions and abbreviations"
- EN 62061:2005 (SILCL3) "Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems"
- UL (C+US) mark for USA and Canada





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Your future's safe!

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

T +39 011 248 2215

F +39 011 859 867

reersafety.com | info@reer.it



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