



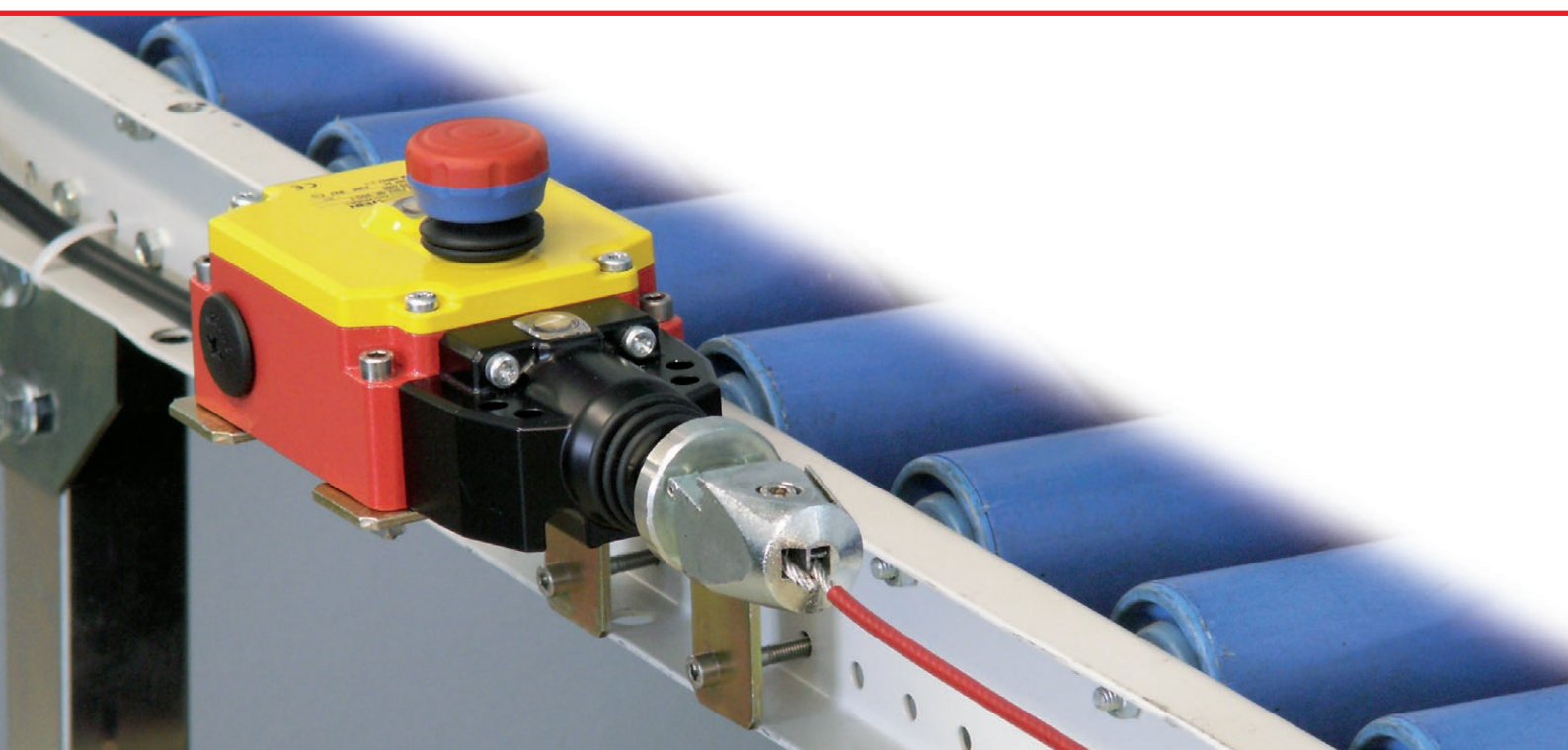
BERNSTEIN Safety Rope Pull Switches SR and SRM

For safety on the production line

BERNSTEIN Safety Rope Pull Switches – For more safety on the production line

Whether on the conveyor belt or on the machine – when maximum safety is required, BERNSTEIN rope pull switches provide a proven and reliable technical solution.

The rope pull switches from BERNSTEIN can be **deployed flexibly**, are **easy to install** and **convenient to handle**. And most importantly: they offer **maximum safety** when it is needed.



The SR and SRM series of safety rope pull switching devices developed and manufactured by BERNSTEIN AG are designed and approved in accordance with the standards **IEC 947-5-5**, **DIN EN 60947-5-5** and **DIN EN ISO 13850**.

On actuation or in the event of cable breakage, the emergency stop switching device locks automatically and can only be reset to its initial setting by using the resetting device on the switch.

Be on the safe side with BERNSTEIN

Before using the rope pull emergency stop switch, a risk assessment in accordance with **DIN EN ISO 13850** must be carried out. The European standard requires a possible triggering of the emergency stop signal by pulling the rope in each actuation direction. This is realised by the integration of a return spring (see page 5) in the system.

A standard-compliant system construction can be simply and reliably realised by using the BERNSTEIN safety rope pull emergency stop switches SR / SRM and the adequate return spring.



SRM → metal enclosure



SR → plastic enclosure

BERNSTEIN rope pull switches comply with the highest safety requirements – even exceeding them in many aspects:

- Rope status display allows **fast and correct** setting and inspection
- Integrated **emergency stop impact button** (optional for SR)
- Easy to use with a **double function palm button** (emergency stop and pull release)
- **Economical installation** due to the **Quick-Fix** clamping head
- A cover over the mechanical parts ensures the switches are **tamper-proof**
- Connection area and mechanical components are separate for **extra safety**
- **Flexible** application due to different lengths
- Manufactured in accordance with standards **DIN EN 60947-5-1**:
 - **DIN EN 60947-5-5**
 - **DIN EN ISO 13850**
- **BG** and **cCSAus** approval



(only SR)

Application Example

Security at the airport



The BERNSTEIN safety rope pull switch is used in boarding bridges designed to ensure passengers can safely board and alight aircraft at airports throughout the world.

Even in the harsh environment of an airport where the safety requirements are increased, the BERNSTEIN SRM offers safety when it counts.

Under hazardous situations, the passenger boarding bridge can be stopped at any time and from any position by pulling the rope.

Additional features

BERNSTEIN Safety Rope Pull Switches

SR and SRM



Switching status indicator (SRM)

Highly readable switching status indicator located on the switch.

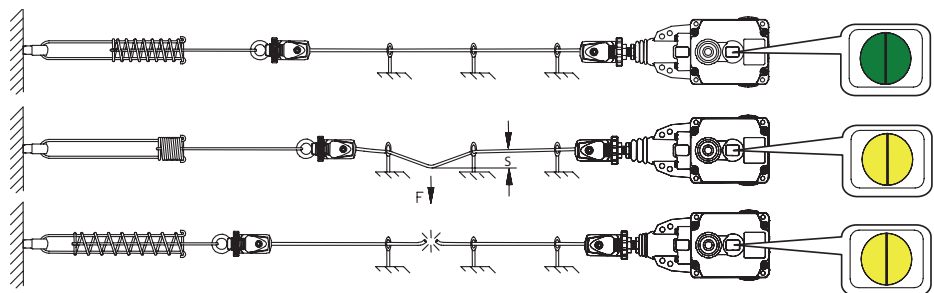
Yellow in the inspection window indicates locking status.

Green in the inspection window indicates operational readiness.

Normal operation

Rope actuation by operator –
Latch automatically

Rope rupture –
Latch automatically



Double function of palm button (SR / SRM)

The BERNSTEIN rope pull switch emergency stop buttons provide **emergency stop function** and **pull release** on actuation or in the event of cable breakage.

The SR series offers a choice of **pull release** or **emergency stop function + pull release**.

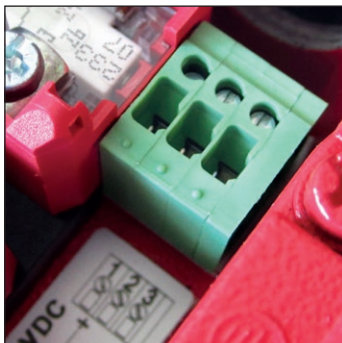
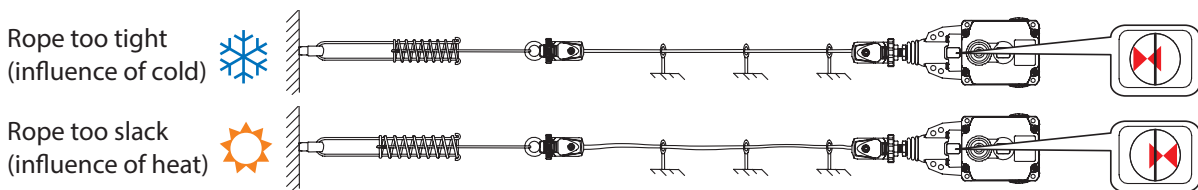
Switches with this dual function are marked with “NA” in the designation.



Rope status display (SR / SRM)

Rope status display for set-up and maintenance.

Adjustment indicator for correct setting of the rope tension.

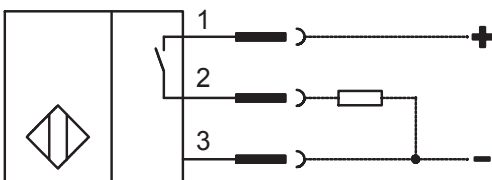


Remote indicator for monitoring the rope tension (SRM)

Critical rope conditions caused by any change in length of the rope are reported via an **integrated sensor**. Unnecessary standstill of the machine can be avoided by appropriately readjusting the tension.

This signal is not highly safety critical.

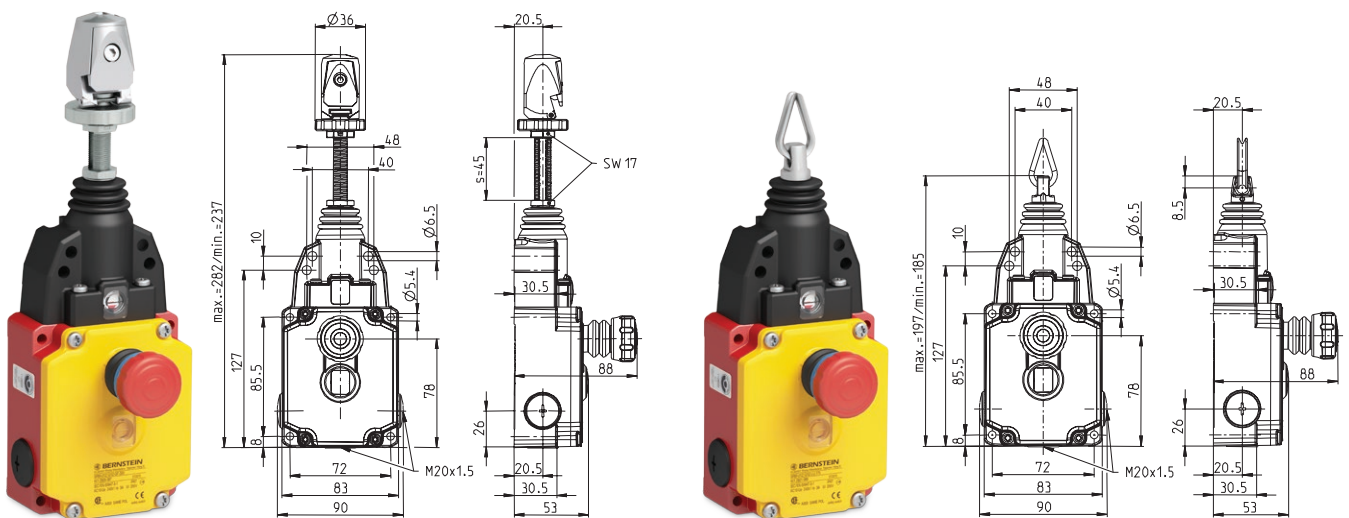
BERNSTEIN also offers additional indicator lights as optional extras.



- Rated operating voltage 24 V DC
- Rated operating current 50 mA
- Utilisation category DC-13
- Protected against polarity reversal and short-circuits

The weather-proof all-rounder – BERNSTEIN SRM rope pull switch

Even under **extreme conditions**, such as major temperature fluctuations, the SRM rope pull switch continues to work reliably.



Product description

- Rope pull switch manufactured in accordance with **DIN EN 60947-5-5** and **DIN EN ISO 13850**
- Protection class **IP 67**
- **Stable and durable metal housing** (Aluminium pressure die-casting)
- Suitable for **outdoor use**
- Can be deployed at temperatures **between -30 °C and +80 °C**
- Easy to fasten due to hole template patterns common for most rope pull switch models
- Flexible handling with three M20 x 1.5 cable entries
- Easy installation due to the **maximum connection space**
- Up to four positively driven NC contacts ⊕
- Separate-action built-in switches
- **AS-i Safety at Work** versions available

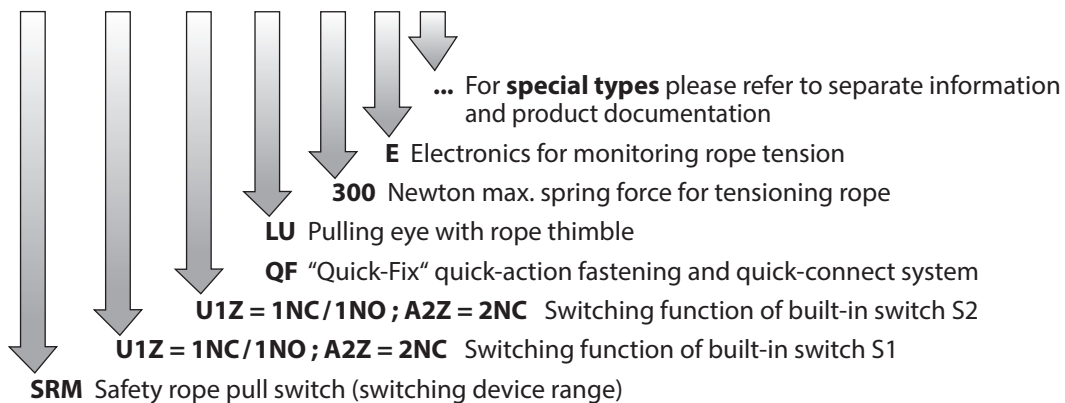
Order data

SRM

| Article number * | Designation | Contact type | Max. span length ** | Features |
|------------------|----------------------|--------------|---------------------|-----------------------------------|
| 6012929087 | SRM-U1Z/U1Z-QF-300 | 2NC / 2NO | 75 m | Quick-Fix QF |
| 6012999096 | SRM-A2Z/U1Z-QF-300 | 3NC / 1NO | 75 m | Quick-Fix QF |
| 6012929088 | SRM-U1Z/U1Z-QF-300-E | 2NC / 2NO | 75 m | Quick-Fix QF, remote indicator E |
| 6012999097 | SRM-A2Z/U1Z-QF-300-E | 3NC / 1NO | 75 m | Quick-Fix QF, remote indicator E |
| 6012929085 | SRM-U1Z/U1Z-QF-175 | 2NC / 2NO | 37,5 m | Quick-Fix QF |
| 6012999094 | SRM-A2Z/U1Z-QF-175 | 3NC / 1NO | 37,5 m | Quick-Fix QF |
| 6012929086 | SRM-U1Z/U1Z-QF-175-E | 2NC / 2NO | 37,5 m | Quick-Fix QF, remote indicator E |
| 6012999095 | SRM-A2Z/U1Z-QF-175-E | 3NC / 1NO | 37,5 m | Quick-Fix QF, remote indicator E |
| 6012921091 | SRM-U1Z/U1Z-LU-300 | 2NC / 2NO | 75 m | Eye LU |
| 6012991100 | SRM-A2Z/U1Z-LU-300 | 3NC / 1NO | 75 m | Eye LU |
| 6012921092 | SRM-U1Z/U1Z-LU-300-E | 2NC / 2NO | 75 m | Eye LU, remote indicator E |
| 6012991101 | SRM-A2Z/U1Z-LU-300-E | 3NC / 1NO | 75 m | Eye LU, remote indicator E |
| 6012921089 | SRM-U1Z/U1Z-LU-175 | 2NC / 2NO | 37,5 m | Eye LU |
| 6012991098 | SRM-A2Z/U1Z-LU-175 | 3NC / 1NO | 37,5 m | Eye LU |
| 6012921090 | SRM-U1Z/U1Z-LU-175-E | 2NC / 2NO | 37,5 m | Eye LU, remote indicator E |
| 6012991099 | SRM-A2Z/U1Z-LU-175-E | 3NC / 1NO | 37,5 m | Eye LU, remote indicator E |
| 6073200007 | AS-i SRM-QF-175 | | 37,5 m | Quick-Fix QF, AS-i Safety at Work |
| 6073200008 | AS-i SRM-QF-300 | | 75 m | Quick-Fix QF, AS-i Safety at Work |
| 6073200009 | AS-i SRM-LU-175 | | 37,5 m | Eye LU, AS-i Safety at Work |
| 6073200010 | AS-i SRM-LU-300 | | 75 m | Eye LU, AS-i Safety at Work |

* further articles on request; ** temperature dependent – for more information see page 5

SRM-U1Z/U1Z-QF-300-E-...

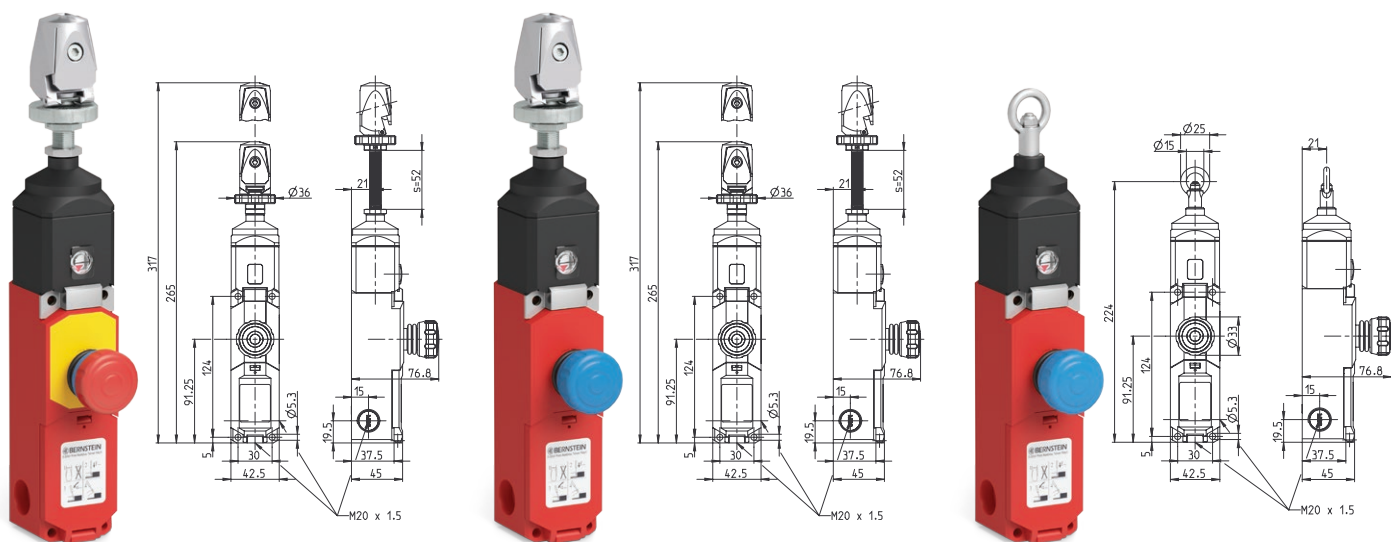


Technical Data SRM

- Rated insulation voltage 250 V AC
- Rated operating voltage 240 V
- Utilization category / switching capacity:
AC-15, 240 V / 3 A ; 120 V / 6 A
DC-13, 250 V / 0,27 A ; 125 V / 0,55 A
- Mechanical switching frequency max. ≤ 20/min.
- Mechanical service life 1 x 10⁵ switching cycles
- B10d: 2 x 10⁵ million
- Admissible ambient temperature **-30 °C to +80 °C**
- Protection class IP 67 in accordance with **DIN EN 60529**
- **Aluminium** pressure die-casting enclosure

Safety when you need it – BERNSTEIN SR rope pull switch

The SR rope pull switch provides **safety** for your machine.



Product description

- Rope pull switch manufactured in accordance with **DIN EN 60947-5-5** and **DIN EN ISO 13850**
- Protection class **IP 67**
- **Stable and durable plastic housing** (PA 6 GV)
- Can be deployed at temperatures between **-25 °C and +70 °C**
- Flexible handling with three **M20 x 1.5** cable entries
- Easy installation due to the **maximum connection space**
- Up to four positively driven NC contacts \ominus

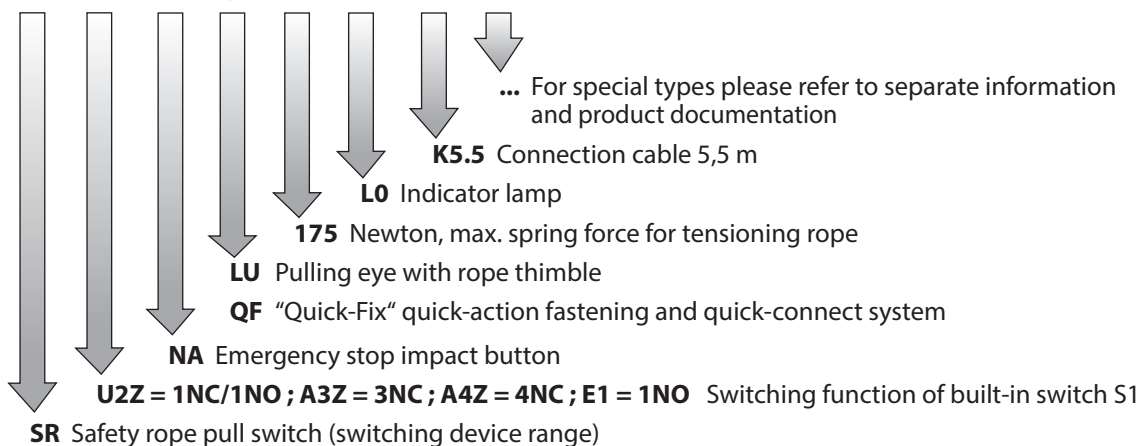
Order data

SR

| Article number * | Designation | Contact type | Max. span length ** | Features |
|------------------|---------------------------|--------------|---------------------|---------------------------------|
| 6011629072 | SR-U2Z-0-QF-300-L0-0-0 | 2NC / 2NO | 75 m | Quick-Fix QF |
| 6011691084 | SR-A3Z/E1-0-QF-300-L0-0-0 | 3NC / 1NO | 75 m | Quick-Fix QF |
| 6011691082 | SR-A4Z-0-QF-300-L0-0-0 | 4NC | 75 m | Quick-Fix QF |
| 6011629069 | SR-U2Z-NA-QF-300-L0-0-0 | 2NC / 2NO | 75 m | Emergency stop NA, Quick-Fix QF |
| 6011691079 | SR-A4Z-NA-QF-300-L0-0-0 | 4NC | 75 m | Emergency stop NA, Quick-Fix QF |
| 6011629071 | SR-U2Z-0-QF-175-L0-0-0 | 2NC / 2NO | 37,5 m | Quick-Fix QF |
| 6011691081 | SR-A4Z-0-QF-175-L0-0-0 | 4NC | 37,5 m | Quick-Fix QF |
| 6011629068 | SR-U2Z-NA-QF-175-L0-0-0 | 2NC / 2NO | 37,5 m | Emergency stop NA, Quick-Fix QF |
| 6011691078 | SR-A4Z-NA-QF-175-L0-0-0 | 4NC | 37,5 m | Emergency stop NA, Quick-Fix QF |
| 6011629070 | SR-U2Z-0-QF-100-L0-0-0 | 2NC / 2NO | 25 m | Quick-Fix QF |
| 6011691080 | SR-A4Z-0-QF-100-L0-0-0 | 4NC | 25 m | Quick-Fix QF |
| 6011629067 | SR-U2Z-NA-QF-100-L0-0-0 | 2NC / 2NO | 25 m | Emergency stop NA, Quick-Fix QF |
| 6011691077 | SR-A4Z-NA-QF-100-L0-0-0 | 4NC | 25 m | Emergency stop NA, Quick-Fix QF |
| 6011621066 | SR-U2Z-0-LU-300-L0-0-0 | 2NC / 2NO | 75 m | Eye LU |
| 6011691083 | SR-A3Z/E1-0-LU-300-L0-0-0 | 3NC / 1NO | 75 m | Eye LU |
| 6011691076 | SR-A4Z-0-LU-300-L0-0-0 | 4NC | 75 m | Eye LU |
| 6011621065 | SR-U2Z-0-LU-175-L0-0-0 | 2NC / 2NO | 37,5 m | Eye LU |
| 6011691075 | SR-A4Z-0-LU-175-L0-0-0 | 4NC | 37,5 m | Eye LU |
| 6011621064 | SR-U2Z-0-LU-100-L0-0-0 | 2NC / 2NO | 25 m | Eye LU |
| 6011691074 | SR-A4Z-0-LU-100-L0-0-0 | 4NC | 25 m | Eye LU |

* further articles on request; ** temperature dependent – for more information see page 5

SR-U2Z-NA-QF-175-L0-K5.5-...



Technical data SR

- Rated insulation voltage 250 V AC
- Rated operating voltage 240 V
- Utilization category / switching capacity:
AC-15, 240 V / 3 A
- Mechanical switching frequency max. ≤ 20/min.
- Mechanical service life 1 x 10⁵ switching cycles
- B10d: 1 x 10⁵ million
- Admissible ambient temperature **-25 °C to +70 °C**
- Protection class IP 67 in accordance with **DIN EN 60529**
- Enclosure: **glass fibre-reinforced polyamide PA 6**



**Switch systems –
Economy meets safety**



**Sensor systems –
Compact intelligence**



**Enclosures systems –
Function and design**

www.bernstein.eu

Contact

International Headquarters
BERNSTEIN AG
Tieloser Weg 6
32457 Porta Westfalica
Phone +49 571 793-0
Fax +49 571 793-555
info@de.bernstein.eu
www.bernstein.eu

Denmark
BERNSTEIN A/S
Phone +45 7020 0522
Fax +45 7020 0177
info@dk.bernstein.eu

France
BERNSTEIN S.A.R.L.
Phone +33 1 64 66 32 50
Fax +33 1 64 66 10 02
info@fr.bernstein.eu

Italy
BERNSTEIN S.r.l.
Phone +39 035 4549037
Fax +39 035 4549647
info@it.bernstein.eu

United Kingdom
BERNSTEIN Ltd
Phone +44 1922 744999
Fax +44 1922 457555
info@uk.bernstein.eu

Austria
BERNSTEIN GmbH
Phone +43 2256 62070-0
Fax +43 2256 62618
info@at.bernstein.eu

Switzerland
BERNSTEIN (Schweiz) AG
Phone +41 44 775 71-71
Fax +41 44 775 71-72
info@ch.bernstein.eu

Hungary
BERNSTEIN Kft.
Phone +36 1 4342295
Fax +36 1 4342299
info@hu.bernstein.eu

China
BERNSTEIN Safe Solutions
(Taicang) Co., Ltd.
Phone +86 512 81608180
Fax +86 512 81608181
info@bernstein-safesolutions.cn