The SGS won't leave you high and dry!

The SGS is a bistable safety switch with remote reset facility. Once actuated, the SGS remains switched until it is either manually reset at the plunger or via external control of the integrated solenoid reset function. In its durable plastic housing with three cable entries, the SGS is an outstanding economical alternative to the limited and often costly solutions previously available to the market.

The SGS can be used wherever specific (manual or electrical) resetting action is required, e.g. in elevator construction, wind power equipment and wherever safety is of paramount importance.

SGS applications include:
- Elevator governors (speed limiter)
- Monitoring of emergency over-ride operation
- Mechanical engineering applications where controlled reset of the switch is required
- Applications with limited access
- Remote monitoring and reset at distant sites.

Features:
- Plunger indicates switch status
- Plunger groove for manual reset
- 2 Versions – 230 V AC and 24 V DC
- Reset via built-in solenoid actuators
- 3 Cable entries M20x1.5
- 2NC (forced disconnect) contacts
- Contact opening 4 x >2 mm
## Type designation: SGS-A2Z

### Technical data

#### Electrical data
- **Safety class**: III totally insulated
- **Rated insulation voltage**: Uₐ 250V AC
- **Contr. thermal current**: Iₐ 10A
- **Utilization category**: CUR 15%, UL 1-240V/125, UL 2-240V/250K
- **Min. switching voltage**: Uₘ 125V
- **Max. switching current**: Iₘ 20mA
- **Power opening**: As per IEC/EN 60417-5-1, Annex K
- **Short-circuit protection**: Force 44-6G/GG
- **Electromagnet**
  - **Thermal class**: B (130°C)
  - **Rated operating voltage**: Uₑ 24V DC -15% / +10% (option 230 V AC)
  - **Rated operating current**: Iₑ 2.3A
  - **Duty factor**: BD 3%
  - **Min. switching-on time**: Tₑ 0.5s
  - **Max. switching-on time**: Tₑ 2s
  - **Min. switching-off time**: Tₑ 17s

#### Mechanical data
- **Housing**
  - **Type**: Thermoplastic GV self-extinguishing
  - **Covering**: Thermoplastic GV self-extinguishing
  - **Operating element**: Plunger (thermoplastic)
  - **Start-up speed**: Vₘₐₓ 0.5m/s
  - **Ambient temperature**: -25°C – +50°C
  - **Contact type**: 2 Break contacts
  - **Switching principle**: Step system, bistable
  - **Mechanical service life**: 5 x 10⁹ switching cycles
  - **Mounting**: 2 x M4 / 2 x M5 for safety applications
  - **Type of connection, switching element**: 4 screw connections (M3,5)
  - **Cable cross section**: Single core 0,5 ... 1,5mm²
  - **Stranded wire with wire end ferrule**: 0,5 ... 1,5mm²
  - **Press-out blank**: with ISO 4762 M5
  - **Type of connection, electromagnet**: 3x M20x1.5 with press-out blank in housing
  - **Installation position**: Any
  - **Contact opening**: 4 x >2mm
  - **Type of protection**: IP 67 as per IEC/EN 60529

#### Start-up options
- **Operating direction in direction of plunger**
- **Regulations**
  - VDE 0601 T100, DIN EN 60947-1, IEC 60947-1
  - VDE 0600 700, DIN EN 60947-5-1, IEC 60947-5-1
  - DIN EN 81-1

#### Approvals
- **cCSAus, CCC, BG as per DIN EN 81**

#### Remarks
- The specified type of protection (IP code) applies only with the cover closed and using a cable gland of at least equivalent quality specification with corresponding cable.
- The switching device must not be used as an end stop.
- Various actuators possible.

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### International Headquarters

**Germany**
- **Bernstein AG**
  - Tielser Weg 6
  - D-32457 Porta Westfalica
  - Phone +49 571 793-0
  - Fax +49 571 793-555
  - info@dc.bernstein.eu

**Denmark**
- **Bernstein A/S**
  - Sindalavej 30
  - DK-8240 Blovstrød
  - Phone +45 7020 0522
  - Fax +45 7020 0177
  - info@dk.bernstein.eu

**Netherlands**
- **Bernstein BV**
  - Tielser Weg 6
  - D-32457 Porta Westfalica
  - Phone +31 314 366088
  - Fax +31 314 361256
  - info@nl.bernstein.eu

**Italy**
- **Bernstein S.r.l.**
  - Via del Pescia 12/ab
  - I-24040 Lezzeno (BG)
  - Phone +39 035 4549037
  - Fax +39 035 4549647
  - info@it.bernstein.eu

**Great Britain**
- **Bernstein Ltd (UK)**
  - Unit 1, Westgate Park
  - Tintagel Way
  - Westgate
  - Aldridge
  - West Midlands
  - W59 8JX
  - Phone +44 1922 744999
  - Fax +44 1922 457555
  - info@uk.bernstein.eu

**Austria**
- **Bernstein GmbH**
  - Kurze Gasse 3
  - A-2454 Leonding (VO)
  - Phone +43 2256 62070-0
  - Fax +43 2256 62618
  - info@at.bernstein.eu

**Switzerland**
- **Bernstein (Schweiz) AG**
  - Steinhofenstrasse 14
  - CH-8554 Geroldswil
  - Phone +41 44 775 71 71
  - Fax +41 44 775 71 72
  - info@ch.bernstein.eu

**France**
- **Bernstein S.A.R.L.**
  - Tielser Weg 6
  - D-32457 Porta Westfalica
  - Phone +33 1 64 66 32 50
  - Fax +33 1 64 66 10 02
  - info@fr.bernstein.eu

**China**
- **Bernstein Safe Solutions (Taicang) Co., Ltd.**
  - North Rd., Jiangsu Province, P.R. China
  - Phone +86 512 81608180
  - Fax +86 512 81608181
  - info@cn.bernstein.eu

- **Hungary**
  - **Bernstein Kft.**
  - Római u. 10
  - 1106 Budapest
  - Phone +36 1 434 2295
  - Fax +36 1 434 2299
  - info@hu.bernstein.eu

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**www.bernstein.eu**