Pull-rope Emergency Switches SNx

Project specific range of pull-rope emergency switches designed to meet all market requirements expanding the existing MEYLE safety switches for conveyor belt line covering all markets and applications.

- SNM up to 50m
  - Mini Duty

- SNS up to 80m
  - Standard Duty

- SNHDL/R Single Head up to 125m
  - Heavy Duty

- SNS-SS up to 100m
  - Stainless Steel

- SNHD Dual Head 250m
  - Heavy Duty
Using Pull-rope Emergency Safety Switches SNx

This pull-rope switches line is designed to be mounted on machines and sections of conveyors which cannot be protected by guards. In contrast to traditional mushroom head type Emergency Stop buttons, Safety Rope Switches can initiate the emergency command from any point along the installed rope length and provide robust Emergency Stop Rope Pull protection for exposed conveyors or machines.

In combination with a dual channel safety monitoring relay these Safety Rope Systems can be used as emergency stop devices monitored for up to Category 4 to EN 954-1. All pull-rope Safety Emergency stop switches conform to European Standard EN 418 and IEC 947-5-5. They have a positive mechanical linkage between the switch contacts and the wire rope. The switches have wire-breakage monitoring.

On pulling the rope the safety contacts are positively opened and the auxiliary contacts are closed. The switches are mechanically latched and can then only be returned to the operational condition by a pressing the blue reset button as required by EN418.

An optional 2 colour LED indicator is available to enable switch status to be viewed from a distance.

System set up:

Rope support eyebolts must be fitted at 2.5 m. min. to 3m. maximum intervals along all rope lengths between switches. The rope must be supported no more than 500mm from the switch eyebolt or Safety Spring (if used). It is important that this first 500mm is not used as part of the active protection coverage. When using one switch the rope must be anchored at the other end using a Safety Spring. When using a Safety Spring a maximum of one corner pulley only may be used to ensure complete lengths of rope are visible to either the switch or the spring anchorage.
Reliable connectivity:

Tensioning of rope is achieved by the use of new Tensioner / Gripper accessory. Traditional turnbuckle and clamp systems are difficult to tension and adjust and frequent re-tensioning or maintenance is normally required of either the turnbuckle or the clamps. Viewing of the switch tension window is difficult.

For greater reliability and ease of installation the Tensioner / Gripper accessory significantly reduces the installation time by offering an eyehook and tensioner thimble and high strength gripper in one assembly to enable rapid connection to the switch eyebolts and fast and accurate tensioning of the Rope. By being in close proximity to the switch viewing window systems can be easily tensioned accurately and quickly. The double clamp mechanism prevents rope slippage and significantly reduces machine ‘down time’ which can occur with traditional turnbuckle systems.

Navigating Corners:

Because of the added friction on the eyebolts and rope when navigating corners, the unique ‘universal’ pulley can be used to navigate inside or outside corners without causing damage to the rope. They are Stainless Steel and can be rigidly mounted.

Examples of using the Universal Pulley:

Withstands 1500N. force.

Tension to mid position as indicated by the green arrows in the viewing window of each switch.

The tensioner thimble allows immediate accurate and final tensioning of the rope, whilst viewing the tension marker through the viewing window on the switch.

The end of the safety rope is fed through a central hole in a cone shaped guide which protrudes from the main housing.

After being fed through the guide hole the rope enters the main housing by going through a feed hole and then is looped back through 180 degrees and is fed through a second feed hole on the opposite side of the mechanism.

The rope is then pulled for maximum tension and is locked in position by a locking bar inside the main housing which is moved by turning an Allen type locking bolt.

For systems up to 50m. a Quick Link termination is provided for easy connection to either a Safety Spring or Switch eyebolt.

(Note for systems above 50m. a Tensioner / Gripper is required each side).

Universal Pulley
Pull-rope Emergency Switches for Mini Duty – Type SNM

Protection up to 50 meters

The SNM a compact yet robust die-cast Mini Duty Safety Rope Pull switch designed to protect short conveyor lengths where protection is required up to 50m using two switches or up to 30m using a single switch.

They provide reliable, cost effective safety solutions for conveyor systems and can be enhanced by adding external mushroom type E Stop at the switch or bi-colour LED available to show switch status from a distance.

They have a choice of 3 or 4 pole contacts to ensure flexibility with all modern control applications.

Rugged integral sealing bellows means they can be high pressure hosed.

<table>
<thead>
<tr>
<th>Type Number</th>
<th>Conduit</th>
<th>Contacts</th>
<th>Fittings</th>
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<td>3001</td>
<td>M20</td>
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</tbody>
</table>

Standards: IEC 947-5-1  IEC 947-5-6  EN 418  UL508  BS 5304

Enclosure / Cover: Die-Cast – Painted Yellow
IP Rating: IP67
Rope Spans: 50m
Rope Tension device: Tensioner / Gripper – Quick Fixing
Rope Type: Steel – PVC sheath
Mounting: 2 x M5
Mounting position: Any
Conduit entries: 3 x M20 or 3 x ½" NPT
Torque settings: 3 x M20 or 3 x ½" NPT by part number
Lid: Torx T20
Terminals: 1.0 Nm
Ambient Temperature: -25C to 80C
Vibration resistance: 10-500Hz 0.35mm
Shock resistance: 15g 11ms
Tension Force (typical mid setting): 130N
Typical Operating Force (Rope pulled): < 125N  < 300mm Deflection
Mechanical Life: 1,000,000 operations
Weight: 670 g.
Contact type: IEC 947-5-1 Double break Type Zb
Contact Material: Silver
Termination: Clamp up to 2.5 sq. mm conductors
Rating: AC15 A300
Operational Rating: 240V 3A
Thermal Current: 10A
Rated Insulation Voltage (UI): 500V
Withstand Voltage (Uimp): 2500V
Shunt Circuit Overload Protection: Fuse Externally 10A (FF)

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All Dimensions in mm
Pull-rope Emergency Switch for Standard Duty– Type SNS

Protection up to 80 meters

The SNS a General Duty robust die-cast Safety Rope Pull switch designed to protect conveyor lengths were protection is required up to 80m using two switches or up to 60m using a single switch. They provide a reliable general purpose safety solution for conveyors and offer a choice of fittings depending upon the application.

They can be supplied with a mushroom type Emergency Stop button which can be fitted to the side of the switch to offer an extra traditional Emergency Stop function close to the switch, or can be fitted later after installation without any extra wiring.

A bi-colour LED is available to show switch status from a distance and they have a choice of 3 pole, 4 pole or Explosion Proof contact blocks to ensure flexibility with all modern control applications.

Rugged integral sealing bellows means they can be high pressure hosed and the choice of materials makes them suitable for inside or outside use.

<table>
<thead>
<tr>
<th>Type Number</th>
<th>Conduit</th>
<th>Contacts</th>
<th>Fittings</th>
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<tr>
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<td>2026</td>
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</table>

It is recommended when using a Safety Spring that a maximum of one corner pulley is used.

Pre-wired Explosion Proof versions

All Dimensions in mm

Standards: IEC 947-5-1  IEC947-5-5  EN 418
UL508  BS 5304

Enclosure / Cover
Die-Cast – Painted Yellow

External Parts
Stainless Steel

IP Rating
IP67

Rope Spans
Up to 80m

Rope Tension device
Tensioner / Gripper – Quick Fixing

Rope Type: 4.0 mm Outside Dia. Steel inner – PVC sheath

Mounting
4 x M5

Mounting position
Any

Conduit entries
3 x M20 or 3 x ½" NPT by part number

Torque settings
Mounting  M5  4.0 Nm
Lid  T20 Torx  M4  1.5 Nm
Terminals  1.0 Nm

Ambient Temperature
-25°C  80 °C

Vibration resistance
10-500Hz  0.35mm

Shock resistance
15g  11ms

Typical Operating Force (Rope pulled)
130N.

Tension Force (typical mid setting)
< 125N.  < 300mm Deflection

Contact type
IEC 947-5-1 Double break Type Zb Snap Action up to 4NC (positive break) 2NO (Auxiliary)

Contact Material
Silver

Contact Arrangement
1 N/C  1 N/O  or  2NC

Rated Voltage
250V a.c

Rated Current
4A a.c

Thermal Current (Ith)
10A.

Rated Insulation Voltage (Ui)
500V.

Withstand Voltage (Uimp)
2500V.

Short Circuit Overload Protection
Fuse Externally 10A. (FF)

Explosion Proof Contact Block
Optional

Classification
Ex d IIC T6

PTB 00 ATEX 1093X  IBEExu 01 ATEX 1007X

Contact Arrangement
1 NC 1 NO or 2NC

Rated Voltage
250V a.c

Rated Current
4A a.c

Contact Arrangement
1 NC 1 NO or 2NC

Typical Operating Force (Rope pulled)
< 125N.  < 300mm Deflection

Mechanical Life
1,000,000 operations

Weight
620 g.

Pre-wired Explosion Proof versions

Type Number | Conduit | Contacts | Fittings |
-------------|---------|----------|----------|
2001        | 3 x M20 | 2NC 1NO  |          |
2002        | 3 x 1/2" NPT | 2NC 1NO |          |
2005        | 3 x M20 | 2NC 1NO  | LED      |
2006        | 3 x 1/2" NPT | 2NC 1NO | LED      |
2009        | 3 x M20 | 2NC 1NO  | E-Stop   |
2010        | 3 x 1/2" NPT | 2NC 1NO | E-Stop   |
2017        | 3 x M20 | 2NC 1NO  | E-Stop   |
2018        | 3 x 1/2" NPT | 2NC 1NO | E-Stop & LED |
2050        | 3 x M20 |          |          |
2051        | 3 x 1/2" NPT | 3NC 1NO |          |
2052        | 3 x M20 | 2NC 2NO  |          |
2053        | 3 x 1/2" NPT | 2NC 2NO |          |
2054        | 3 x M20 | 4NC      |          |
2055        | 3 x M20 |          |          |
2056        | 3 x M20 | 4NC      | LED      |
2057        | 3 x 1/2" NPT | 4NC | LED      |
2058        | 3 x M20 | 3NC 1NO  | E-Stop   |
2059        | 3 x 1/2" NPT | 3NC 1NO | E-Stop   |
2060        | 3 x M20 |          | E-Stop & LED |
2061        | 3 x 1/2" NPT | 4NC | E-Stop & LED |
2062        | 3 x M20 | 3NC 1NO  | E-Stop   |
2063        | 3 x 1/2" NPT | 3NC 1NO | E-Stop   |
2064        | 3 x M20 | 2NC 2NO  | E-Stop   |
2065        | 3 x 1/2" NPT | 2NC 2NO | E-Stop   |
2066        | 3 x M20 |          | E-Stop & LED |
2067        | 3 x 1/2" NPT | 4NC | E-Stop & LED |
2074        | 3 x M20 | 3NC 1NO  | E-Stop & LED |
2075        | 3 x 1/2" NPT | 3NC 1NO | E-Stop & LED |
2076        | 3 x M20 | 2NC 2NO  | E-Stop & LED |
2077        | 3 x 1/2" NPT | 2NC 2NO | E-Stop & LED |
2078        | 3 x M20 | 4NC      | E-Stop & LED |
2079        | 3 x 1/2" NPT | 4NC | E-Stop & LED |
2082        | 3m. 4 core Ex | 1NC 1NO |          |
2083        | 3m. 4 core Ex | 2NC |          |
2025        | 3m. 4 core Ex | 1NC 1NO |          |
2026        | 3m. 4 core Ex | 2NC |          |
Pull-rope Emergency Switch for Standard Duty – Type SNS-SS Stainless Steel

Protection up to 100 meters

The SNS-SS is a General Duty Safety Rope Pull switch designed to protect long conveyor lengths up to 100m. The Stainless Steel 316 housings are designed specifically to withstand the tough environments found in the Food and Pharmaceutical industries. The fixing holes are under the cover of the switch to prevent food trap areas. They are all purpose switches and will survive chemical and detergent washdown by providing all stainless steel parts and robust IP67 sealing by using integral bellows and gaskets.

An easily seen bi-colour LED is available to show switch status from a distance and they have a choice of 3 pole, 4 pole or Explosion Proof contact blocks to ensure flexibility with all modern control applications.

Shorter rope spans up to 80m. can be achieved by using just one switch therefore making a cost effective solution and also reducing electrical wiring runs.
Pull-rope Emergency Switch for Heavy Duty – Type SNHD

The SNHD is a Heavy Duty Safety Rope Pull switch designed to protect long conveyor lengths. The die-cast housings are robust to survive indoor or outdoor use including washdown (IP67 rating). Lengths over 2 Km can be achieved with less than 20 switches.

A bi-colour LED ensures switch status can be seen easily from a distance. They have 4NC 2NO contacts to ensure flexibility with all modern control applications and optional Explosion Proof contact blocks are available.

Shorter rope spans up to 200m, can be achieved by using just one switch therefore making a cost effective solution and also reducing electrical wiring runs.

Also available as SNHD-SS Stainless Steel 316 housing for IP 69K.

Pre-wired Ex versions

### Standards:
- IEC 947-5-1
- IEC 947-5-5
- EN 418
- UL 508
- BS 5304

### Enclosure / Cover
- Die-Cast – Painted Yellow

### External Parts
- Stainless Steel

### IP Rating
- IP67 / IP 69K

### Rope Spans
- Dual Head 250m.

### Rope Tension device
- Tensioner / Gripper – Quick Fixing

### Rope Type
- 4.0 mm Outside Dia. Steel inner – PVC sheath

### Mounting
- M x M

### Mounting position
- Any

### Torque settings
- Mounting 4 x M5

### Conduit entries
- 4 x M20

### Lid
- T20 Torx M4 1.5 Nm

### Terminal settings
- 1.0 Nm

### Ambient Temperature
- -25C  80 C

### Vibration resistance
- 10-500Hz  0.35mm

### Shock resistance
- 10g  11ms

### Tension Force
- 130N.

### Typical Operating Force
- < 125N.  < 300mm Deflection

### Mechanical Life
- 1,000,000 operations

### Weight
- 1320 g.

### Contact type
- IEC 947-5-1 Double break Type Zb
- Snap Action up to 4NC (positive break) 2NO (Auxiliary)

### Contact Material
- Silver

### Termination
- Clamp up to 2.5 sq. mm conductors

### Utilisation Category
- AC15 A300

### Operational Rating
- 240V. 3A.

### Thermal Current (Ith)
- 10A.

### Rated Insulation Voltage (Uii)
- 500V.

### Withstand Voltage (Uimp)
- 2500V.

### Short Circuit Overload Protection
- Fuse Externally 10A. (FF)

### Explosion Proof Contact Block
- Optional

### Classification
- Ex d IIC T6
- PTB 00 ATEX 1093X IBEuX 01 ATEX 1007X

### Contact Arrangement
- 1 NC 1 N/O or 2 NC or 3 NC 1 NO or 2NC 2NO

### Rated Voltage
- 250V a.c

### Rated Current
- 4a c

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46522 Lengerich/Germany  Fax: (+49) 5481-9385-12  E-Mail: sales@meyle.de
Pull-rope Emergency Switch for Heavy Duty – Type SNHDL/R

Protection up to 125 meters

The SNHDL/R is a robust die-cast Heavy Duty Safety Rope Pull switch designed to protect long conveyor lengths were protection is required up to 125m. using two switches or up to 100m. using a single switch. The die-cast housings are robust to survive indoor or outdoor use.

A bi-colour LED ensures switch status can be seen easily from a distance. They have 4NC 2NO contacts to ensure flexibility with all modern control applications and optional Explosion Proof contact blocks are available.

They can be used to compliment the SNHD versions at each end of the rope span.
## Accessories for Pull-rope Emergency Switches - Type SNAC

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<tr>
<th>Type Number</th>
<th>Galvanised</th>
<th>Stainless Steel</th>
<th>Description</th>
<th>Rope</th>
<th>Eyebolts</th>
<th>Tensioner / Gripper</th>
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<td>0058</td>
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<tr>
<td>0061</td>
<td>4 pole Contact Block</td>
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<td>M20 to ½” NPT adapter</td>
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<td>½” NPT Conduit plug</td>
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<td>0052</td>
<td>M20 Conduit plug</td>
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<tr>
<td>0053</td>
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<td>M20 Cable gland</td>
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<td>M12 Cable gland</td>
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For up to 50m. spans, one rope end is terminated with a thimble and permanent clamp.

For over 50m. spans, 2 Tensioner / Gripper assemblies are supplied (no Quick Link).