

# Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M8x1, 3-pin Plug, M8x1, 2-pin
- UL certification
- Reed electronic PNP electronic NPN
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR



## Certificates

|                                  |                   |
|----------------------------------|-------------------|
| Ambient temperature min./max.    | -30 ... 80 °C     |
| Protection class                 | IP65, IP67        |
| Switching point precision        | ±0,1 mT           |
| Nominal current, actuated state  | 30 mA             |
| Quiescent current (without load) | 8 mA              |
| Min./max. DC operating voltage   | 10 ... 30 V DC    |
| Min./max. AC operating voltage   | See table below   |
| Hysteresis                       | ≥ 0,2 mT          |
| Switching logic                  | NO (make contact) |
| LED status display               | Yellow            |
| Vibration resistance             | 10 - 55 Hz, 1 mm  |
| Shock resistance                 | 30 g / 11 ms      |
| Cable length L                   | 0,3 m             |

CE declaration of conformity, cULus, RoHS

## Technical data

| Part No.   |                                                                                     | for                               | Type of contact |
|------------|-------------------------------------------------------------------------------------|-----------------------------------|-----------------|
| R412022868 |  | PRA, PRE, CCI, KPZ, SSI, GPC, CVI | Reed            |
| R412027172 |  | PRA, PRE, CCI, KPZ, SSI, GPC, CVI | Reed            |
| R412022872 |  | PRA, PRE, CCI, KPZ, SSI, GPC, CVI | Reed            |
| R412022858 |  | PRA, PRE, CCI, KPZ, SSI, GPC, CVI | electronic PNP  |
| R412022851 |  | PRA, PRE, CCI, KPZ, SSI, GPC, CVI | electronic NPN  |

| Part No.   | Cable length L | Min./max. AC operating voltage | Voltage drop U at I <sub>max</sub> |
|------------|----------------|--------------------------------|------------------------------------|
| R412022868 | 0,3 m          | 10 ... 30 V AC                 | ≤ 3,5 V                            |
| R412027172 | 0,3 m          | 10 ... 30 V AC                 | ≤ 3,5 V                            |
| R412022872 | 0,3 m          | 10 ... 30 V AC                 | ≤ 0,1 V                            |
| R412022858 | 0,3 m          | -                              | ≤ 2,5 V                            |
| R412022851 | 0,3 m          | -                              | ≤ 2,5 V                            |

| Part No.   | DC switching current, max. | AC switching current, max. |
|------------|----------------------------|----------------------------|
| R412022868 | 0,13 A                     | 0,13 A                     |
| R412027172 | 0,13 A                     | 0,13 A                     |
| R412022872 | 0,3 A                      | 0,5 A                      |

| Part No.   | DC switching current, max. | AC switching current, max. |
|------------|----------------------------|----------------------------|
| R412022858 | 0,13 A                     | -                          |
| R412022851 | 0,13 A                     | -                          |

| Part No.   | Switching capacity     | Max. switching frequency |
|------------|------------------------|--------------------------|
| R412022868 | Reed, 2-pin: max. 10 W | 400 Hz                   |
| R412027172 | Reed, 2-pin: max. 10 W | 400 Hz                   |
| R412022872 | Reed, 3-pin: max. 6 W  | 400 Hz                   |
| R412022858 | -                      | 1000 Hz                  |
| R412022851 | -                      | 1000 Hz                  |

| Part No.   | Operating current, not switched | Operating current, switched |
|------------|---------------------------------|-----------------------------|
| R412022868 | -                               | -                           |
| R412027172 | -                               | -                           |
| R412022872 | -                               | -                           |
| R412022858 | 8 mA                            | 30 mA                       |
| R412022851 | 8 mA                            | 30 mA                       |

| Part No.   | Version                                                     |    |
|------------|-------------------------------------------------------------|----|
| R412022868 | Protected against polarity reversal                         | 1) |
| R412027172 | Protected against polarity reversal                         | 1) |
| R412022872 | Protected against polarity reversal                         | 1) |
| R412022858 | short circuit resistant Protected against polarity reversal | -  |
| R412022851 | short circuit resistant Protected against polarity reversal | -  |

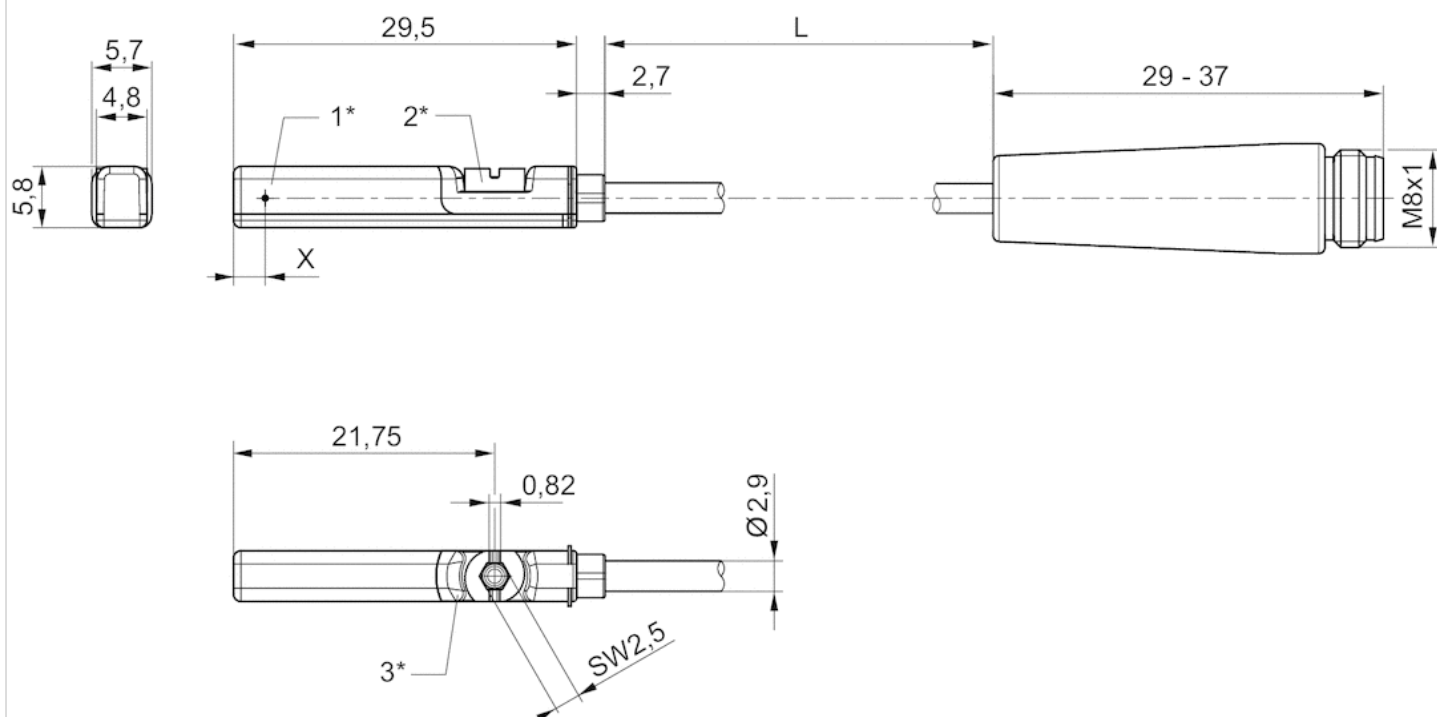
1) The product of operating voltage and continuous current must not exceed the maximum switching capacity.

## Technical information

| Material      |                 |
|---------------|-----------------|
| Housing       | Polyamide       |
| Cable sheath  | Polyurethane    |
| Locking screw | Stainless steel |

## Dimensions

### Dimensions



1\* = switching point 2\* = locking screw 3\* = LED window, transparent

L = cable length

X = electronic: 11,6 mm, Reed: 8,3 mm