



## Sensor, Series ST6

- 6 mm T-slot
- with cable
- open cable ends, 2-pin open cable ends, 3-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



Ambient temperature min./max. -30 ... 80 °C

Protection class IP65, IP67, IP69K

Switching point precision ±0,1 mT

Nominal current, actuated state 30 mA

Nominal current, actuated state 30 mA

Quiescent current (without load) 8 mA

Min./max. DC operating voltage See table below Min./max. AC operating voltage See table below Hysteresis  $\geq 0.2 \text{ mT}$ 

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 3 5 10 m



## Technical data

Part No.		for	Type of contact
R412022866	Do au R	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412027170	Do Ou R	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022869	[0] [0] [0] [0] [0] [0] [0] [0] [0] [0]	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022870	[Do ] 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022871	ID ( 1850 - 1777)	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed
R412022853	PNP NLO	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022855	PNP NLO	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022857	PNP NLO	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic PNP
R412022849	II III O	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic NPN
R412022850	II III O O O O O O O O O O O O O O O O	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	electronic NPN

Part No.	Cable length L	Min./max. DC operating voltage	Min./max. AC operating voltage
R412022866	3 m	10 230 V DC	10 230 V AC
R412027170	5 m	10 230 V DC	10 230 V AC
R412022869	3 m	10 30 V DC	10 30 V AC
R412022870	5 m	10 30 V DC	10 30 V AC
R412022871	10 m	10 30 V DC	10 30 V AC
R412022853	3 m	10 30 V DC	-
R412022855	5 m	10 30 V DC	-
R412022857	10 m	10 30 V DC	-
R412022849	3 m	10 30 V DC	-
R412022850	5 m	10 30 V DC	-

Part No.	Voltage drop U at Imax	DC switching current, max.
R412022866	≤ 3,5 V	0,13 A
R412027170	≤ 3,5 V	0,13 A
R412022869	I*Rs	0,3 A
R412022870	≤ 0,1 V	0,3 A
R412022871	I*Rs	0,3 A
R412022853	≤ 2,5 V	0,13 A
R412022855	≤ 2,5 V	0,13 A
R412022857	≤ 2,5 V	0,13 A
R412022849	≤ 2,5 V	0,13 A
R412022850	≤ 2,5 V	0,13 A

Part No.	AC switching current, max.	Switching capacity
R412022866	0,13 A	Reed, 2-pin: max. 10 W
R412027170	0,13 A	Reed, 2-pin: max. 10 W
R412022869	0,5 A	Reed, 3-pin: max. 6 W
R412022870	0,5 A	Reed, 3-pin: max. 6 W
R412022871	0,5 A	Reed, 3-pin: max. 6 W



Part No.	AC switching current, max.	Switching capacity
R412022853	-	-
R412022855	-	-
R412022857	-	-
R412022849	-	-
R412022850	-	-

Part No.	Max. switching frequency	Operating current, not switched
R412022866	400 Hz	-
R412027170	400 Hz	-
R412022869	400 Hz	-
R412022870	400 Hz	-
R412022871	400 Hz	-
R412022853	1000 Hz	8 mA
R412022855	1000 Hz	8 mA
R412022857	1000 Hz	8 mA
R412022849	1000 Hz	8 mA
R412022850	1000 Hz	8 mA

Part No.	Operating current, switched
R412022866	-
R412027170	-
R412022869	-
R412022870	-
R412022871	-
R412022853	30 mA
R412022855	30 mA
R412022857	30 mA
R412022849	30 mA
R412022850	30 mA

Part No.	Version	Fig.	
R412022866	Protected against polarity reversal	Fig. 1	1)
R412027170	Protected against polarity reversal	Fig. 1	1)
R412022869	Protected against polarity reversal	Fig. 2	2)
R412022870	Protected against polarity reversal	Fig. 2	2)
R412022871	Protected against polarity reversal	Fig. 2	2)
R412022853	short circuit resistant Protected against polarity reversal	Fig. 2	3)
R412022855	short circuit resistant Protected against polarity reversal	Fig. 2	3)
R412022857	short circuit resistant Protected against polarity reversal	Fig. 2	3)
R412022849	short circuit resistant Protected against polarity reversal	Fig. 2	3)
R412022850	short circuit resistant Protected against polarity reversal	Fig. 2	3)

- 1) open cable ends, 2-pin, The product of operating voltage and continuous current must not exceed the maximum switching capacity.
- 2) open cable ends, 3-pin, The product of operating voltage and continuous current must not exceed the maximum switching capacity.
- 3) open cable ends, 3-pin



## Technical information

No cULus certification for 230 V variant.

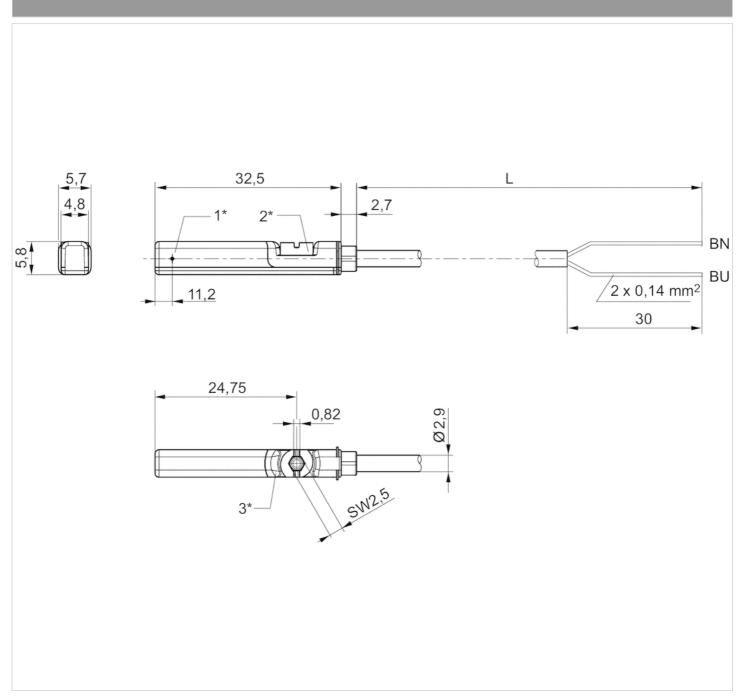
#### Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel



#### Dimensions

#### Fig.

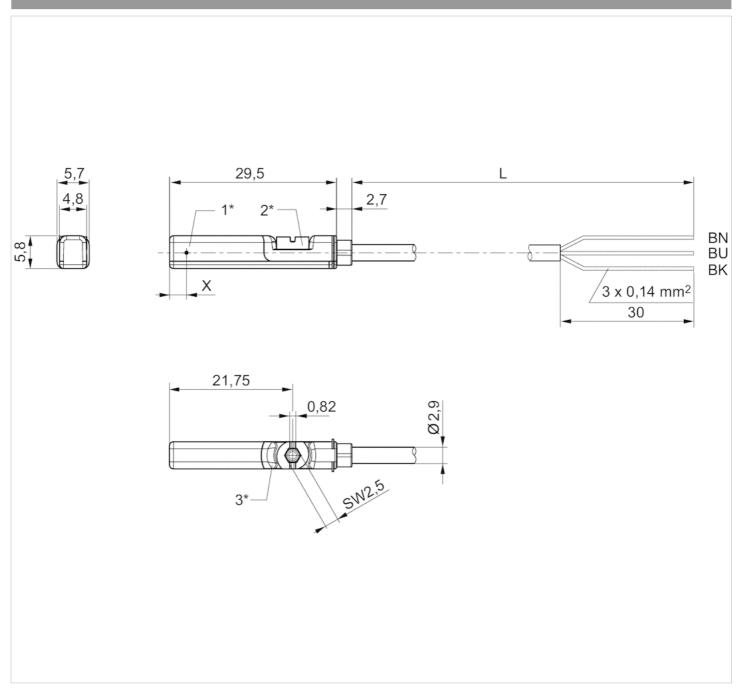


 $1^*$  = switching point  $2^*$  = locking screw  $3^*$  = LED window, transparent L = cable length BN=brown, BU=blue





#### Fig. 2



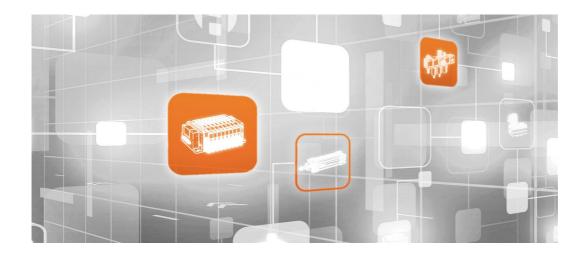
1\* = switching point 2\* = locking screw 3\* = LED window, transparent

L = cable length

BN = brown, BK = black, BU = blue

X = electronic: 11.6 mm

# Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: Emerson.com/Aventics

Your local contact: Emerson.com/contactus



Emerson.com



Facebook.com/EmersonAutomationSolutions



LinkedIn.com/company/Emerson-Automation-Solutions



Twitter.com/EMR\_Automation

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and again.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. 

2020 Emerson Electric Co. All rights reserved.

