Sensor, Series ST9

- 9 mm groove
- with cable
- without wire end ferrule, tin-plated, 2-pin without wire end ferrule, tin-plated, 3-pin
- With stretched impulse
- With stretched impulse
- Reed electronic PNP
- Direct mounting for series KHZ

Ambient temperature min./max.	See table below
Protection class	IP67, IP65
Switching point precision	±0,1 mT
Nominal current, actuated state	7 mA
Quiescent current (without load)	3 mA
Min./max. DC operating voltage	See table below
Min./max. AC operating voltage	See table below
LED status display	See table below
Vibration resistance	60 g (50 ... 2000 Hz)
Shock resistance	100 g / 11 ms
Cable length L	3 5 m

Technical data

Part No.		for	Type of contact	Cable sheath	Cable length L
0830100320		KHZ	Reed	Polyvinyl chloride	3 m
0830100380		KHZ	Reed	Polyvinyl chloride	3 m
0830100381		KHZ	Reed	Polyvinyl chloride	5 m
0830100382		KHZ	Reed	Polyurethane	3 m
0830100383		KHZ	Reed	Polyurethane	5 m
0830100390		KHZ	Reed	Polyurethane	3 m
0830100396		KHZ	Reed	Polyurethane	5 m
0830100385		KHZ	electronic PNP	Polyvinyl chloride	3 m
0830100386		KHZ	electronic PNP	Polyvinyl chloride	5 m
0830100387		KHZ	electronic PNP	Polyurethane	3 m

Part No.	Min./max. DC operating voltage	Min./max. AC operating voltage
0830100320	0 ... 24 V DC	0 ... 24 V AC
0830100380	12 ... 24 V DC	12 ... 24 V AC
0830100381	12 ... 24 V DC	12 ... 24 V AC
0830100382	12 ... 24 V DC	12 ... 24 V AC
0830100383	12 ... 24 V DC	12 ... 24 V AC
0830100390	12 ... 24 V DC	12 ... 24 V AC
0830100396	12 ... 24 V DC	12 ... 24 V AC
0830100385	12 ... 36 V DC	-
0830100386	12 ... 36 V DC	-
0830100387	12 ... 36 V DC	-

Part No.	Voltage drop U at Imax	DC switching current, max.
0830100320	I*Rs	0,13 A
0830100380	2,1 V + I*Rs	0,13 A
0830100381	2,1 V + I*Rs	0,13 A
0830100382	2,1 V + I*Rs	0,13 A
0830100383	2,1 V + I*Rs	0,13 A
0830100390	I*Rs	0,13 A
0830100396	I*Rs	0,13 A
0830100385	≤ 2,0 V	0,2 A
0830100386	≤ 2,0 V	0,2 A
0830100387	≤ 2,0 V	0,2 A

Part No.	AC switching current, max.	Ambient temperature min./max.	Switching capacity
0830100320	0,2 A	-20 ... 80 °C	3 W / 5 VA
0830100380	0,2 A	-20 ... 80 °C	3 W / 5 VA
0830100381	0,2 A	-20 ... 80 °C	3 W / 5 VA
0830100382	0,2 A	-20 ... 80 °C	3 W / 5 VA
0830100383	0,2 A	-20 ... 80 °C	3 W / 5 VA

Part No.	AC switching current, max.	Ambient temperature min./max.	Switching capacity
0830100390	0,2 A	-20 ... 80 °C	3 W / 5 VA
0830100396	0,2 A	-20 ... 80 °C	3 W / 5 VA
0830100385	-	-10 ... 70 °C	-
0830100386	-	-10 ... 70 °C	-
0830100387	-	-10 ... 70 °C	-

Part No.	Protective resistor for reed	Max. switching frequency
0830100320	1,3 Ω	-
0830100380	1,3 Ω	-
0830100381	1,3 Ω	-
0830100382	1,3 Ω	-
0830100383	1,3 Ω	-
0830100390	1,3 Ω	-
0830100396	1,3 Ω	-
0830100385	-	2000 Hz
0830100386	-	2000 Hz
0830100387	-	2000 Hz

Part No.	Operating current, not switched	Operating current, switched	LED status display
0830100320	-	-	-
0830100380	-	-	Yellow
0830100381	-	-	Yellow
0830100382	-	-	Yellow
0830100383	-	-	Yellow
0830100390	-	-	Yellow
0830100396	-	-	Yellow
0830100385	3 mA	7 mA	Yellow
0830100386	3 mA	7 mA	Yellow
0830100387	3 mA	7 mA	Yellow

Part No.	Version
0830100320	Protected against polarity reversal
0830100380	Protected against polarity reversal
0830100381	Protected against polarity reversal
0830100382	Protected against polarity reversal
0830100383	Protected against polarity reversal
0830100390	Protected against polarity reversal
0830100396	Protected against polarity reversal
0830100385	short circuit resistant Protected against polarity reversal
0830100386	short circuit resistant Protected against polarity reversal
0830100387	short circuit resistant Protected against polarity reversal

Part No.	Switch signal	
0830100320	-	1)
0830100380	-	1)
0830100381	-	1)
0830100382	-	1)
0830100383	-	1)
0830100390	-	2)
0830100396	-	2)
0830100385	With stretched impulse	2)
0830100386	With stretched impulse	2)
0830100387	With stretched impulse	2)

1) without wire end ferrule, tin-plated, 2-pin

2) without wire end ferrule, tin-plated, 3-pin

Technical information

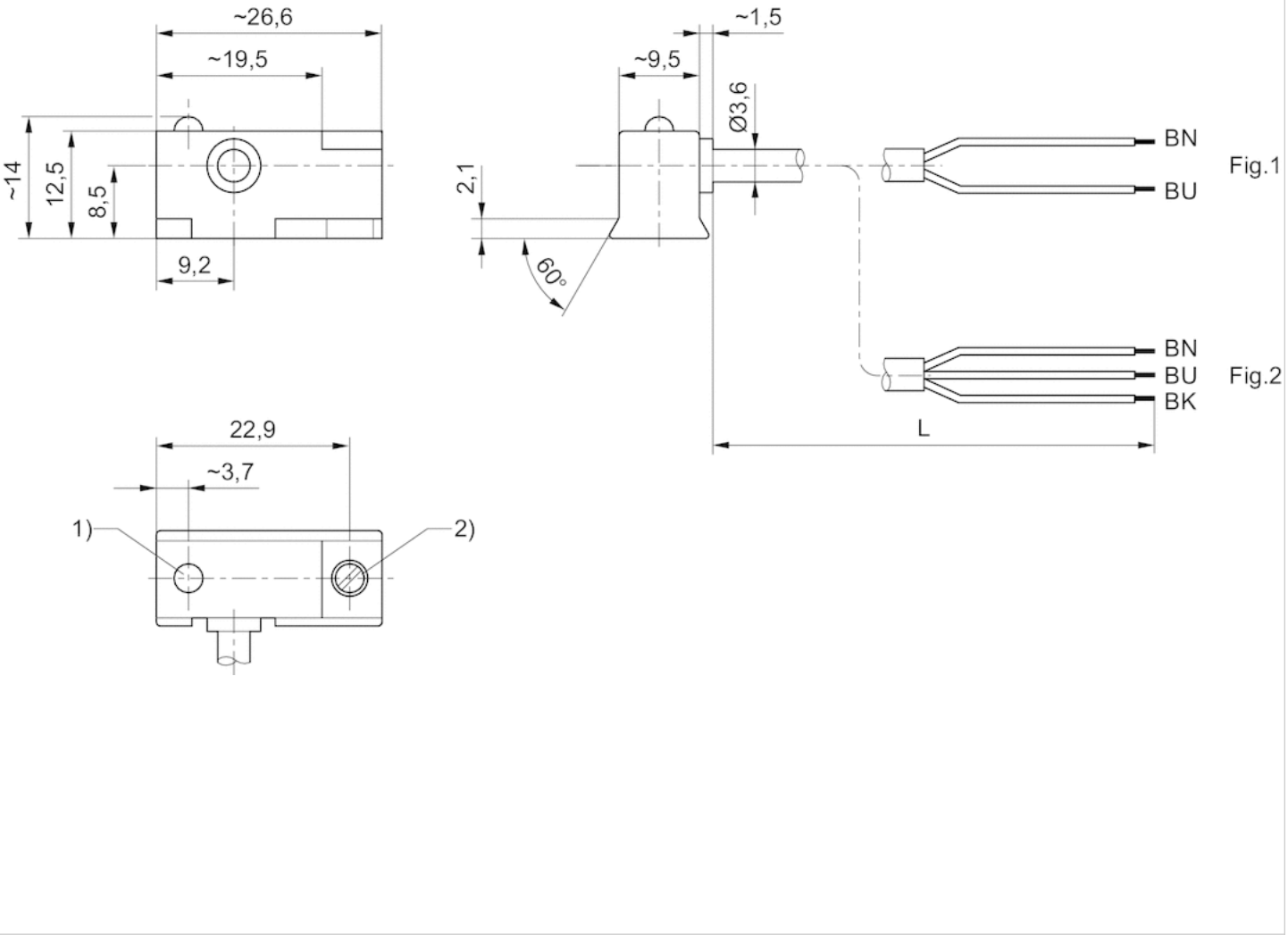
If reed sensors are used, we recommend using a short-circuit protective device (SCPD).

Technical information

Material	
Housing	epoxy resin
Cable sheath	Polyvinyl chloride Polyurethane

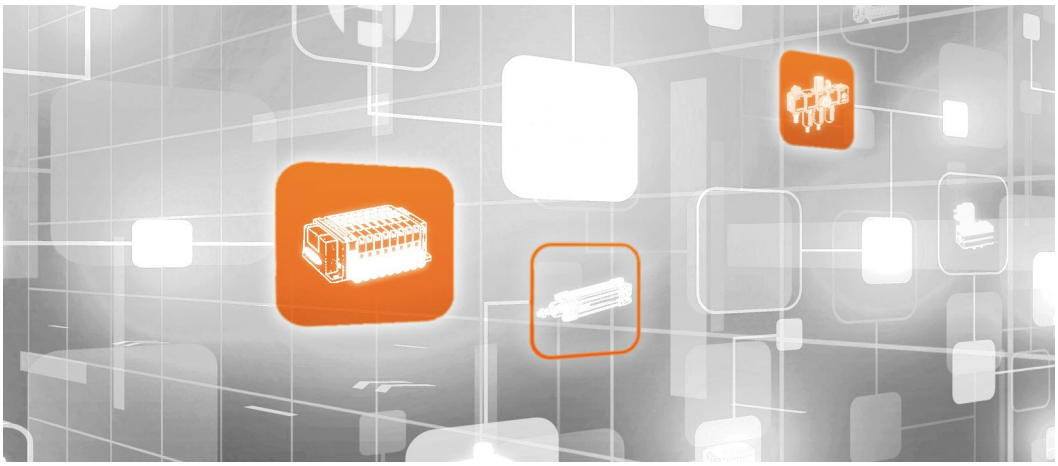
Dimensions

Dimensions



1) LED
2) Clamping screw
L = cable length
BN = brown
BK = black
BU = blue

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

2020-12

EMERSON.

CONSIDER IT SOLVED™