

## Bus system connector - SACC-MSB-2SC SH PB EX - 1457733

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Bus system connector, M12 male connector, PROFIBUS, shielded, B-coded, 2-pos., spring-cage connection, metal knurl, SPEEDCON fast locking system, suitable for installation in Ex zone 2 potentially explosive areas

### Your advantages

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference
- ✓ Save time, thanks to installation with SPEEDCON fast locking system



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 627177
GTIN	4046356627177

### Technical data

#### Dimensions

Length	61 mm
External cable diameter	4 mm ... 8 mm

#### Ambient conditions

Ambient temperature (operation)	-30 °C ... 75 °C (Plug / socket)
Degree of protection	IP67

#### General

Rated current at 40°C	2 A
Rated voltage	30 V DC
Number of positions	2
Insulation resistance	≥ 100 MΩ
Coding	B-coded

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## Technical data

### General

Standards/regulations	M12 connector IEC 61076-2-101
	ATEX Directive 94/9/EC IEC 60079-0 IEC 60079-11 IEC 60079-15
	Declaration of conformity QSI 10 ATEX 2018U II 3G Ex nA II Gc
	Shock, vibration EN 50155:2001
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Spring-cage connection
Conductor cross section	0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Conductor cross section AWG	26 ... 20
Assembly instructions	AWG 18 wire cross section upon request

### Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

### Cable

Standards/specifications	M12 connector IEC 61076-2-101
	ATEX Directive 94/9/EC IEC 60079-0 IEC 60079-11 IEC 60079-15
	Declaration of conformity QSI 10 ATEX 2018U II 3G Ex nA II Gc
	Shock, vibration EN 50155:2001

### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standard designation	ATEX Directive 94/9/EC
Standards/regulations	IEC 60079-0
	IEC 60079-11
	IEC 60079-15
Standard designation	Declaration of conformity
Standards/regulations	QSI 10 ATEX 2018U
	II 3G Ex nA II Gc
Standard designation	Shock, vibration
Standards/regulations	EN 50155:2001
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

### Environmental Product Compliance

# Bus system connector - SACC-MSB-2SC SH PB EX - 1457733

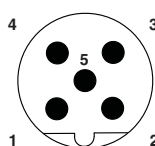
## Technical data

### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

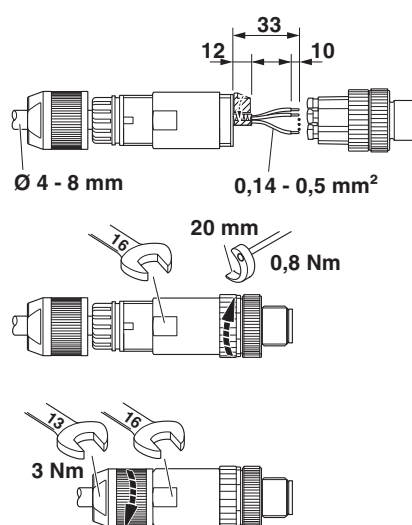
## Drawings

Schematic diagram



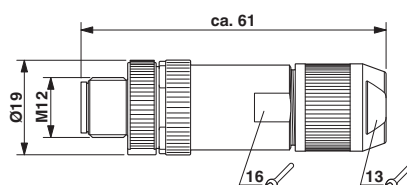
Pin assignment M12 plug, 5-pos., B-coded

Functional drawing



Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter < 6 mm stick an additional shielding foil around the wire pack, screw the sleeve housing to the plug insert, screw the pressure nut tight.

Dimensional drawing



M12 SPEEDCON plug, straight, shielded

## Approvals

### Approvals

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### Approvals


#### Approvals


UL Recognized / cUL Recognized / cULus Recognized


#### Ex Approvals

#### ATEX

### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN		300 V	
Nominal current IN		4 A	

cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 118976
Nominal voltage UN		300 V	
Nominal current IN		4 A	

cULus Recognized	
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