



Automatización Eléctrica
Especialistas en Automatización

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Sensor/actuator box - SACB-8/16-L- 5,0 80MC SCO - 1401199

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Sensor/actuator box, Application: Robots and drag chains, Connection method: M12-SPEEDCON-socket Metal, Number of slots: 8, Number of positions: 5, Coding: A - standard, Slot assignment: Double, Status indication: Yes, pnp; Master cable connection: Fixed connection 180°, PUR, halogen free, highly flexible, highly flexible, Cable length: 5 m, Shielding: No

Why buy this product

- Safety in the field, thanks to molded housing and high degree of protection
- Flexible, distributed bundling of signals in one master cable
- Convenient: increased machine availability thanks to quick and easy diagnostics
- Save space: distributor box with double occupancy for two sensors in one slot
- Save time, thanks to installation with SPEEDCON fast locking system



Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 536110

Technical data

General

Rated voltage	24 V DC
Max. operating voltage U_{max}	30 V DC
Current carrying capacity per I/O signal	2 A
Current carrying capacity per slot	4 A
Total rated current	12 A
Number of positions	5
Number of slots	8
Flammability rating according to UL 94	V0
Sensor/actuator connection system	M12-SPEEDCON-socket

Ambient conditions

Degree of protection	IP65
	IP67

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Technical data

Ambient conditions

	IP69K
Ambient temperature (operation)	-30 °C ... 90 °C
	-40 °C ... 90 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

Master cable connection data

Connection method	Fixed connection
Length of cable	5 m
Tightening torque slot sensor/actuator cable	0.4 Nm
Tightening torque of mounting screw for fixing the housing	0.5 Nm

Insulation material

Housing material	PBT
Material of the moulding mass	PUR
Contact material	Cu alloy
Contact surface material	Gold-plated
Contact carrier material	PA
Material of threaded sleeve	Zinc die-cast
Material of threaded sleeve surface	Nickel-plated
O-ring material	NBR

Pin assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH
	1 / 2 (B) = GY/PK
	2 / 4 (A) = GN
	2 / 2 (B) = RD/BU
	3 / 4 (A) = YE
	3 / 2 (B) = WH/GN
	4 / 4 (A) = GY
	4 / 2 (B) = BN/GN
	5 / 4 (A) = PK
	5 / 2 (B) = WH/YE
	6 / 4 (A) = RD
	6 / 2 (B) = YE/BN
	7 / 4 (A) = BK
	7 / 2 (B) = WH/GY
	8 / 4 (A) = VT
	8 / 2 (B) = GY/BN
	1-8 / 1 (+ 24 V) = BN
	1-8 / 3 (0 V) = BU
	1-8 / 5 (PE) = GN/YE

Standards and Regulations

Sensor/actuator box - SACB-8/16-L- 5,0 80MC SCO - 1401199

Technical data

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

Cable

Cable type	PUR halogen-free, highly flexible
Cable type (abbreviation)	80MC
Cable abbreviation	LS9Y11Y-J-EFK
Conductor cross section	16x 0.5 mm ² (Signal line)
	3x 1 mm ² (power line)
AWG signal line	20
AWG power supply	17
Conductor structure signal line	28x 0.15 mm
Conductor structure, voltage supply	56x 0.15 mm
Wire colors	Brown, blue, green/yellow, white, green, yellow, gray, pink, red, black, violet, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray, gray/brown
Overall twist	Wires twisted to an optimum in two layers
External sheath, color	black RAL 9005
External cable diameter	10.75 mm
Smallest bending radius, fixed installation	90 mm
Smallest bending radius, movable installation	120 mm
Number of bending cycles	5000000
Bending radius	120 mm
Traversing path	5 m
Traversing rate	3 m/s
Acceleration	5 m/s ²
Torsion force	± 120 °/m (≥ 3 million torsion cycles)
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 10 MΩ*km (at 20 °C)
Conductor resistance	39 Ω/km (Signal line)
	19.5 Ω/m (power line)
Nominal voltage, cable	300 V
Test voltage, cable	2000 V
Special properties	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Flame resistance	DIN EN 50265-2-1
Halogen-free	The cable is halogen-free
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-30 °C ... 70 °C (cable, fixed installation)

Sensor/actuator box - SACB-8/16-L- 5,0 80MC SCO - 1401199

Technical data

Cable

	5 °C ... 70 °C (cable, flexible installation)
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Classifications

eCl@ss

eCl@ss 4.0	27250313
eCl@ss 4.1	27250313
eCl@ss 5.0	27143423
eCl@ss 5.1	27143423
eCl@ss 6.0	27143423
eCl@ss 7.0	27449001
eCl@ss 8.0	27279219

ETIM

ETIM 3.0	EC001856
ETIM 4.0	EC002585
ETIM 5.0	EC002585

UNSPSC

UNSPSC 6.01	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	31261501

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approvals submitted

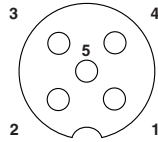
Approval details

EAC

Sensor/actuator box - SACB-8/16-L- 5,0 80MC SCO - 1401199

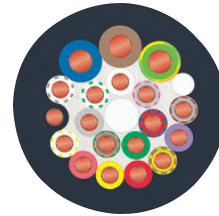
Drawings

Schematic diagram



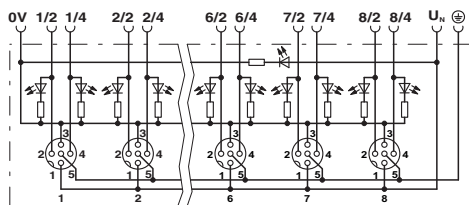
M12 slot, socket, 5-pos.

Cable cross section

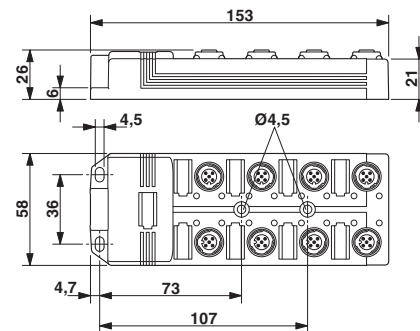


PUR halogen-free, highly flexible [80MC]

Circuit diagram



Dimensional drawing



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Product	Code	Reference	Product link
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