

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Sensor/actuator box, application: Standard, connection method: M12-SPEEDCON-socket Metal, number of slots: 8, number of positions: 5, coding: A - standard, slot assignment: Double, status display: yes, pnp; master cable connection: Pluggable screw connection 180°, 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
- Flexible: distributor box with connector hood for on-site assembly



#### **Key Commercial Data**

Packing unit	1 STK
GTIN	4 017918 967567
GTIN	4017918967567

#### Technical data

#### General

Rated voltage	24 V DC
Max. operating voltage U <sub>max</sub>	30 V DC
Current carrying capacity per I/O signal	2 A
Current carrying capacity per slot	4 A
Total rated current	10 A
	2x 8 A (For electrical isolation)
Number of positions	5
Number of slots	8
Flammability rating according to UL 94	V0
Sensor/actuator connection system	M12-SPEEDCON-socket



### Technical data

#### Ambient conditions

Degree of protection	IP65
	IP67
	IP69K
Ambient temperature (operation)	-30 °C 80 °C

#### Local diagnostics function

Local diagnostics	Supply voltage per module Green LED
	Status display I/O Yellow LED

#### Master cable data/connection data

Connection method	Pluggable screw connection	
Conductor cross section min. (signal)	0.14 mm²	
Conductor cross section max. (signal)	1.5 mm²	
Conductor cross section AWG min. (signal)	26	
Conductor cross section AWG max. (signal)	16	
Stripping length (signal)	7 mm	
Conductor cross section min. (energy)	0.14 mm²	
Conductor cross section max. (energy)	1.5 mm²	
Conductor cross section AWG min. (energy)	26	
Conductor cross section AWG max. (energy)	16	
External cable diameter min.	7 mm	
External cable diameter max.	12 mm	
Stripping length	50 mm (Master cable)	
Tightening torque, cover screw	0.35 Nm	
Tightening torque, union nut	2.5 Nm	
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 contact, master cable side	CU alloy
Material of contact surface, master cable side	Gold-plated
Material of the contact carrier on the master cable side	PA 6.6 V0
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) = 1 / 4



#### Technical data

#### Pin assignment

1 / 2 (B) = 1 / 2
2 / 4 (A) = 2 / 4
2 / 2 (B) = 2 / 2
3 / 4 (A) = 3 / 4
3 / 2 (B) = 3 / 2
4 / 4 (A) = 4 / 4
4 / 2 (B) = 4 / 2
5 / 4 (A) = 5 / 4
5 / 2 (B) = 5 / 2
6 / 4 (A) = 6 / 4
6 / 2 (B) = 6 / 2
7 / 4 (A) = 7 / 4
7 / 2 (B) = 7 / 2
8 / 4 (A) = 8 / 4
8 / 2 (B) = 8 / 2
1-8 / 1 (+ 24 V) = U <sub>N</sub>
1-8 / 3 (0 V) = 0 V
1-8 / 5 (PE) = PE

#### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1	
China RoHS	Environmentally Friendly Use Period = 50	
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"	

### Drawings

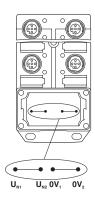


#### Schematic diagram



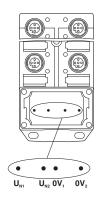
M12 slot, socket, 5-pos.

#### Schematic diagram



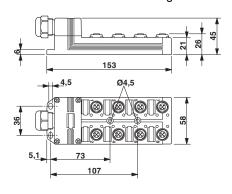
Potential  $U_{N1}$  and  $U_{N2}$  bridged. Potential assignment:  $U_{N1}$  =  $U_{N2}$  = slots 1,2,3,4,5,6,7,8.

#### Schematic diagram

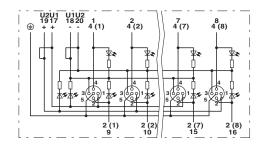


Electrically isolated. Potential assignment:  $U_{N1}$  = slots 1,3,5,7 and  $U_{N2}$  = slots 2,4,6,8.

#### Dimensional drawing



#### Circuit diagram



### Approvals

#### Approvals



### Approvals

AC / EAC / UL Recognized / cU	L Recognized /	COLUS RECOGNIZEU	
x Approvals			
approval details			
EAC	ERC		EAC-Zulassung
EAC	ERE		RU C- DE.Al30.B.01102
UL Recognized	<b>7/1</b>	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 118976
Naminal valtana LINI		24 V	
Nominal voltage UN Nominal current IN		3 A	
cUL Recognized	. <b>71</b>	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 118976
Nominal voltage UN Nominal current IN		24 V 3 A	



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