

1452576

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Distributor box, application: Standard, connection method: M12 socket Plastic, number of slots: 4, number of positions: 4, coding: A, slot assignment: single, status display: yes, PNP; master cable connection: Fixed connection 180°, PUR/PVC, cable length: 5 m, shielding: no

### Your advantages

- · Safety in the field, thanks to molded housing and high degree of protection
- · Convenient: increased machine availability thanks to quick and easy diagnostics
- · Save time, thanks to installation with SPEEDCON fast locking system

#### Commercial data

Item number	1452576
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF41
Product key	AF3CBA
GTIN	4046356553902
Weight per piece (including packing)	552 g
Weight per piece (excluding packing)	534 g
Customs tariff number	85444290
Country of origin	DE



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### Technical data

#### Notes

Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.
Note on application	Unused slots are to be sealed off prior to commissioning. Suitable sealing elements are to be found under "Accessories".

### Product properties

Product type	Distributor box
Application	Standard
Number of positions	4
Number of slots	4
Coding	A
LED	yes

### System properties

#### Local diagnostics

Monitored function	Supply voltage	
Optical representation	Green LED	

### Electrical properties

Max. operating voltage U <sub>max</sub>	30 V DC	
Local diagnostics	Supply voltage Green LED	
	Status display I/O Yellow LED	
Nominal voltage U <sub>N</sub>	24 V DC	
Rated current, total	12 A	
Max. current carrying capacity per path	2 A	
Current carrying capacity per slot	4 A	

#### Connection data

#### Conductor connection

Sensor/actuator connection system	M12 socket	
Tightening torque slot sensor/actuator cable	0.4 Nm	
Tightening torque of mounting screw for fixing the housing	0.5 Nm	

#### Connection assignment

Slot/position = Wire color or connection	1 / 4 (A) = WH	
	2 / 4 (A) = GN	
	3 / 4 (A) = YE	
	4 / 4 (A) = GY	
	1-4 / 1 (+ 24 V) = BN	



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Shielded

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	1-4 / 3 (0 V) = BU
	1-4 / 5 (PE) = GNYE
gnaling	
Status display present	yes
mensions	
Dimensional drawing	
4.5 O4.5 O4.5 T3 107	
Width	54 mm
Height	23 mm
Length	117 mm
aterial specifications	
Material Threaded sleeve	PBT
Material Housing	PBT
Material Molding compound	PUR
Flammability rating according to UL 94	VO
Seal material O-ring	NBR
Contact material	Cu alloy
Contact surface material	gold-plated
Contact carrier material	PA
able/line	
Cable length	5 m
PUR/PVC black [PUR]	
Dimensional drawing	
Cable weight	77.9 kg/km
Cable weight UL AWM Style	77.9 kg/km 20549

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Cable type	PUR/PVC black [PUR]		
Conductor structure signal line	19x 0.15 mm		
AWG signal line	22		
Conductor structure, voltage supply	42x 0.15 mm		
AWG power supply	18		
Conductor cross section	4x 0.34 mm² (Signal line)		
	3x 0.75 mm² (power line)		
Wire diameter incl. insulation	1.3 mm ±0.1 mm (Signal line)		
	1.8 mm ±0.1 mm (power line)		
External cable diameter	6.90 mm ±0.2 mm		
Outer sheath, material	PUR		
External sheath, color	black RAL 9005		
Conductor material	Bare Cu litz wires		
Material wire insulation	PVC		
Single wire, color	brown, blue, green/yellow, white, green, yellow, gray		
Inner sheath thickness	≥ 0.15 mm		
Thickness, outer sheath	≥ 0.38 mm		
Overall twist	Wires twisted in layers		
Nominal voltage, cable	300 V		
Test voltage	2000 V		
Minimum bending radius, fixed installation	7.5 x D		
Minimum bending radius, flexible installation	10 x D		
Smallest bending radius, fixed installation	52 mm		
Smallest bending radius, movable installation	69 mm		
Dynamic load capacity (bending)	Max. bending cycles: 1500000, Bending radius: 69 mm, Traversing path: 2 m, Traversing rate: 2 m/s		
Flame resistance	DIN EN 50265		
Resistance to oil	according to VDE 0472 Part 803		
Other resistance	Highly resistant to acids, alkaline solutions and solvents		
Special properties	erties Silicone-free		
Ambient temperature (operation)	-40 °C 90 °C (cable, fixed installation)		
	-5 °C 80 °C (Cable, flexible installation)		

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP65	
	IP67	
Ambient temperature (operation)	-25 °C 80 °C	

### Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

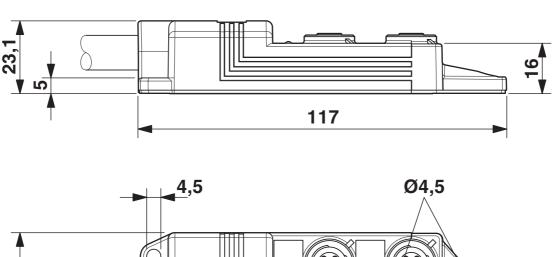


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## Drawings

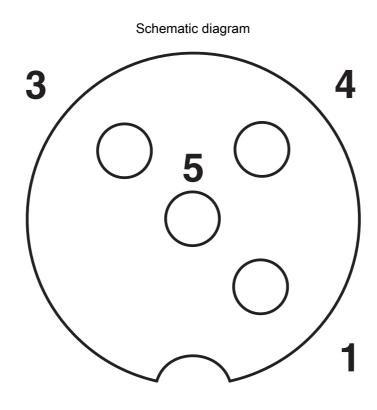
### Dimensional drawing





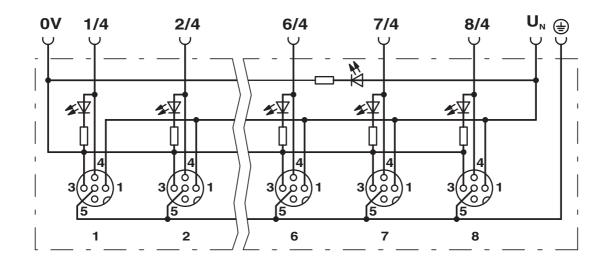
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M12 slot, socket, 4-pos.

Circuit diagram





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### **Approvals**

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.51	<b>cUL Recognized</b> Approval ID: E118976				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		24 V	-	-	-

<b>91</b> UL Recognized Approval ID: E118976				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
Signal	-	2 A	-	-
	24 V	4 A	-	-



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27440108			
	ECLASS-15.0	27440108			
ETIM					
	ETIM 9.0	EC002585			
UNSPSC					
	UNSPSC 21.0	31251500			



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### Environmental product compliance

#### EU RoHS

25 1616				
Fulfills EU RoHS substance requirements	Yes, No exemptions			
China RoHS				
Environment friendly use period (EFUP)	EFUP-E			
	No hazardous substances above the limits			
EU REACH SVHC				
REACH candidate substance (CAS No.)	No substance above 0.1 wt%			

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