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Distributor box, application: Robots and drag chains, connection method: M12-SPEEDCON-socket Metal, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, status display: Yes, pnp; master cable connection: Fixed connection 180°, PUR, halogen free, highly flexible, highly flexible, 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 space: distributor box with double occupancy for two sensors in one slot
- Save time, thanks to installation with SPEEDCON fast locking system

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1401199             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF3CCA              |
| Product key                          | BF3CCA              |
| Catalog page                         | Page 167 (C-4-2013) |
| GTIN                                 | 4046356536110       |
| Weight per piece (including packing) | 1,313.6 g           |
| Weight per piece (excluding packing) | 1,269 g             |
| Country of origin                    | PL                  |

# SACB-8/16-L- 5,0 80MC SCO - Distributor box



1401199

<https://www.phoenixcontact.com/nz/products/1401199>

## Technical data

### Notes

|         |  |
|---------|--|
| General | <b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
| General | 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         | Robots and drag chains |
| Number of positions | 5                      |
| Number of slots     | 8                      |
| Coding              | A                      |

### Electrical properties

|   |         |
|---|---------|
| Max. operating voltage $U_{max}$        | 30 V DC |
| Nominal voltage $U_N$                   | 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-SPEEDCON-socket |
| Tightening torque slot sensor/actuator cable               | 0.4 Nm              |
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm              |

#### Pin assignment

|  |                  |
|--|------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH   |
|  | 1 / 2 (B) = GYPK |
|  | 2 / 4 (A) = GN   |
|  | 2 / 2 (B) = RDBU |
|  | 3 / 4 (A) = YE   |
|  | 3 / 2 (B) = WHGN |
|  | 4 / 4 (A) = GY   |
|  | 4 / 2 (B) = BNGN |
|  | 5 / 4 (A) = PK   |
|  | 5 / 2 (B) = WHYE |
|  | 6 / 4 (A) = RD   |
|  | 6 / 2 (B) = YEBN |
|  | 7 / 4 (A) = BK   |

# SACB-8/16-L- 5,0 80MC SCO - Distributor box



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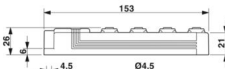
<https://www.phoenixcontact.com/nz/products/1401199>

|  |                       |
|--|-----------------------|
|  | 7 / 2 (B) = WHGY      |
|  | 8 / 4 (A) = VT        |
|  | 8 / 2 (B) = GYBN      |
|  | 1-8 / 1 (+ 24 V) = BN |
|  | 1-8 / 3 (0 V) = BU    |
|  | 1-8 / 5 (PE) = GNYE   |

## Signaling

|                        |     |
|------------------------|-----|
| Status display present | Yes |
|------------------------|-----|

## Dimensions

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 58 mm  |
| Height              | 26 mm  |
| Length              | 153 mm   |

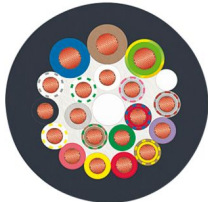
## Material specifications

|  |               |
|--|---------------|
| Material Threaded sleeve               | Die-cast zinc |
| Material Housing                       | PBT           |
| Material Molding compound              | PUR           |
| Flammability rating according to UL 94 | V0            |
| Seal material O-ring                   | NBR           |
| Contact material                       | Cu alloy      |
| Contact surface material               | gold-plated   |
| Contact carrier material               | PA            |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

PUR halogen-free, highly flexible [80MC]

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Number of positions | 19   |

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|   |  |
|---|--|
| Shielded                                      | no   |
| Cable type                                    | PUR halogen-free, highly flexible [80MC]   |
| Conductor structure signal line               | 28x 0.15 mm  |
| AWG signal line                               | 20   |
| Conductor cross section                       | 16x 0.5 mm <sup>2</sup> (Signal line)<br>3x 1 mm <sup>2</sup> (power line)   |
| External cable diameter                       | 10.75 mm   |
| Outer sheath, material                        | PUR  |
| External sheath, color                        | black RAL 9005   |
| Conductor material                            | Bare Cu litz wires   |
| Material wire insulation                      | PP   |
| Single wire, color                            | 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  |
| Max. conductor resistance                     | 39 Ω/km (Signal line)<br>19.5 Ω/m (power line)   |
| Insulation resistance                         | ≥ 10 MΩ*km (at 20 °C)  |
| Nominal voltage, cable                        | 300 V  |
| Test voltage                                  | 2000 V   |
| Smallest bending radius, fixed installation   | 90 mm  |
| Smallest bending radius, movable installation | 120 mm   |
| Max. bending cycles                           | 5000000  |
| Torsion force                                 | ± 120 °/m  |
| Torsion cycles                                | ≥ 3000000  |
| Halogen-free                                  | The cable is halogen-free  |
| Flame resistance                              | DIN EN 50265-2-1   |
| Resistance to oil                             | in accordance with DIN EN 60811-2-1  |
| Other resistance                              | somewhat resistant to welding sparks   |
| Special properties                            | Silicone-free<br>Free of substances which would hinder coating with paint or varnish   |
| Ambient temperature (operation)               | -30 °C ... 70 °C (cable, fixed installation)<br>5 °C ... 70 °C (Cable, flexible installation)<br>to 80 °C (in acc. with UL)  |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                       |
|---------------------------------|-----------------------|
| Degree of protection            | IP65<br>IP67<br>IP69K |
| Ambient temperature (operation) | -30 °C ... 90 °C      |

## Standards and regulations

# SACB-8/16-L- 5,0 80MC SCO - Distributor box



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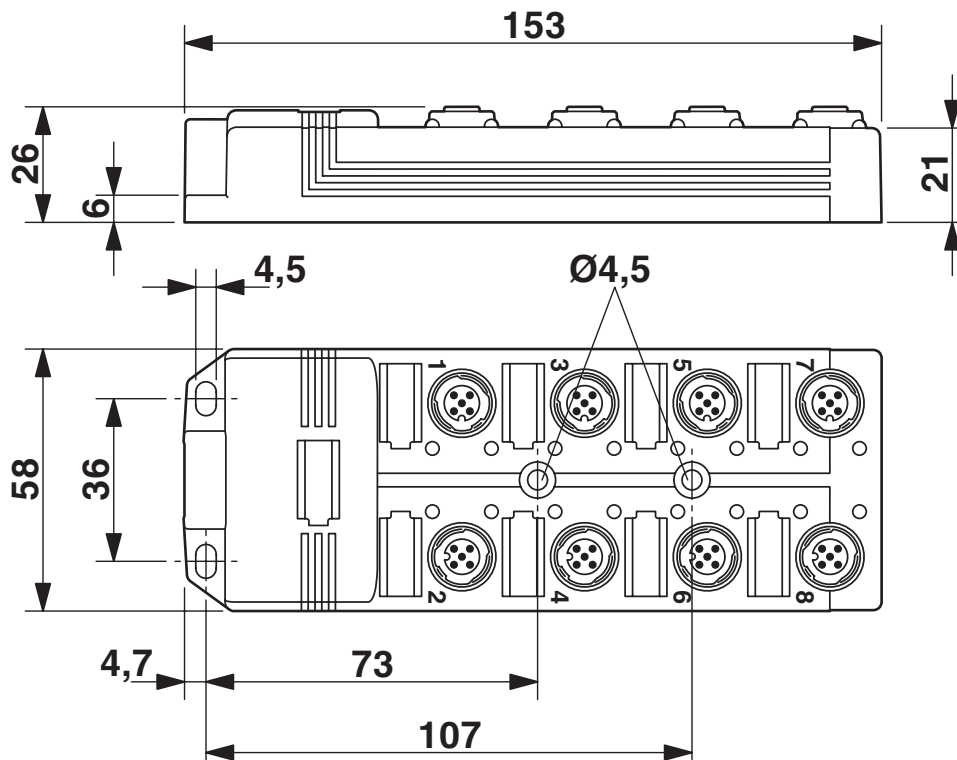
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## M12

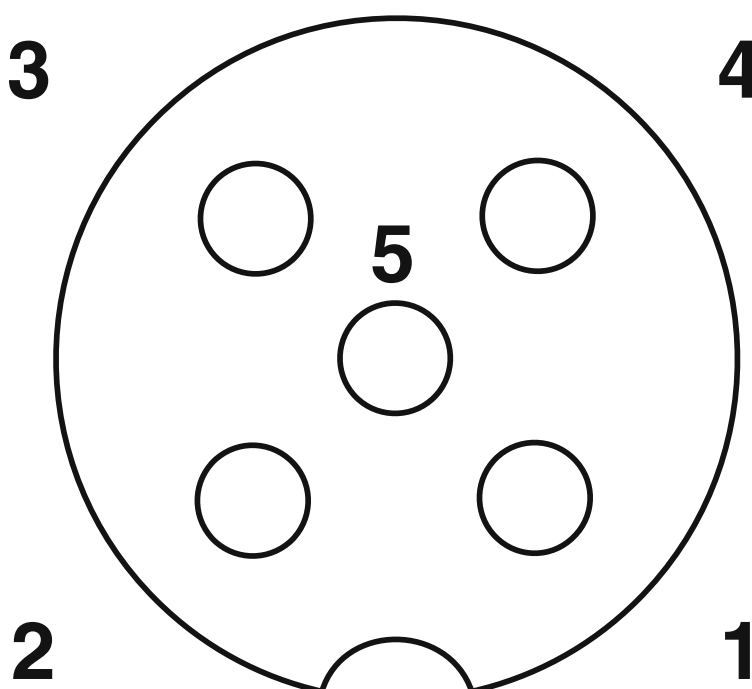
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|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |

## Drawings

Dimensional drawing



Schematic diagram



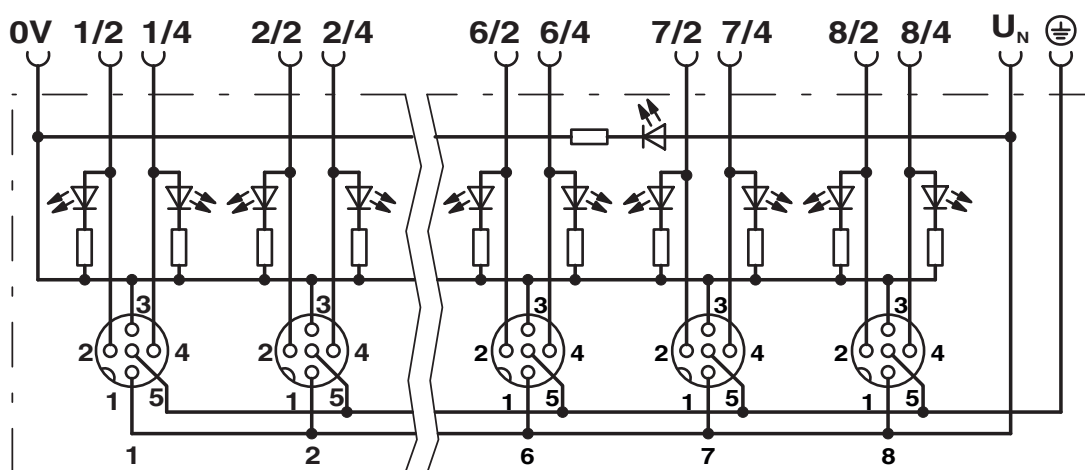
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Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440108 |
| ECLASS-12.0 | 27440108 |
| ECLASS-13.0 | 27440108 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002585 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|



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## Environmental product compliance

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

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