

# SACB-8/8-L-PUR SCO FLK14/MCV3P - Distributor box



1547928

<https://www.phoenixcontact.com/us/products/1547928>

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Distributor box, application: Standard, extended requirements, connection method: M12 socket Metal, number of slots: 8, number of positions: 4, coding: A, slot assignment: single, status display: yes, PNP; master cable connection: Rear FLK pin strip and MINI COMBICON 270°, 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
- Easy PLC system cabling, thanks to master connection on the back

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1547928                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF42                           |
| Product key                          | AF3CCE                         |
| GTIN                                 | 4046356135528                  |
| Weight per piece (including packing) | 365 g                          |
| Weight per piece (excluding packing) | 324.09 g                       |
| Customs tariff number                | 85366990                       |
| Country of origin                    | PL                             |

## Technical data

### Notes

|                     |                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assembly note       | <b>NOTE:</b> 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, extended requirements |
| Number of positions | 4                               |
| Number of slots     | 8                               |
| Coding              | A                               |
| LED                 | yes                             |

### System properties

#### Local diagnostics

|                        |                |
|------------------------|----------------|
| Monitored function     | Supply voltage |
| Optical representation | Green LED      |

### Electrical properties

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Max. operating voltage $U_{max}$        | 30 V DC                       |
| Local diagnostics                       | Supply voltage Green LED      |
|                                         | Status display I/O Yellow LED |
| Nominal voltage $U_N$                   | 24 V DC                       |
| Rated current, total                    | 4 A                           |
|                                         | 8 A (up to 40 °C)             |
| Max. current carrying capacity per path | 0.5 A (1 A to 40 °C)          |
| Current carrying capacity per slot      | 0.5 A (1 A to 40 °C)          |

### Connection data

#### Conductor connection

|                                                            |                                              |
|------------------------------------------------------------|----------------------------------------------|
| Sensor/actuator connection system                          | M12 socket                                   |
| Conductor cross section Flexible power supply              | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection cross section AWG Flexible power supply         | 26 ... 16                                    |
| Stripping length Signal line                               | 9 mm                                         |
| Tightening torque slot sensor/actuator cable               | 0.4 Nm                                       |
| Tightening torque of mounting screw for fixing the housing | 0.5 Nm                                       |

#### Connection assignment

1 / 4 (A) = 1

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|                                          |                       |
|------------------------------------------|-----------------------|
| Slot/position = Wire color or connection | 2 / 4 (A) = 2         |
|                                          | 3 / 4 (A) = 3         |
|                                          | 4 / 4 (A) = 4         |
|                                          | 5 / 4 (A) = 5         |
|                                          | 6 / 4 (A) = 6         |
|                                          | 7 / 4 (A) = 7         |
|                                          | 8 / 4 (A) = 8         |
|                                          | 1-8 / 1 (+ 24 V) = 9  |
|                                          | 1-8 / 1 (+ 24 V) = 11 |
|                                          | 1-8 / 1 (+ 24 V) = 13 |
|                                          | 1-8 / 3 (0 V) = 10    |
|                                          | 1-8 / 3 (0 V) = 12    |
|                                          | 1-8 / 3 (0 V) = 14    |

## Signaling

|                        |     |
|------------------------|-----|
| Status display present | yes |
|------------------------|-----|

## Dimensions

|                     |        |
|---------------------|--------|
| Dimensional drawing |        |
| Width               | 58 mm  |
| Height              | 28 mm  |
| Length              | 159 mm |

## Material specifications

|                                                          |               |
|----------------------------------------------------------|---------------|
| Material Threaded sleeve                                 | Die-cast zinc |
| Material Housing                                         | PBT           |
| Material Molding compound                                | PUR           |
| Seal material O-ring                                     | NBR           |
| Contact material                                         | Cu alloy      |
| Contact surface material                                 | gold-plated   |
| Contact carrier material                                 | PA            |
| Material of contact, master cable side                   | CU alloy      |
| Material of the contact carrier on the master cable side | PA            |
| Material of contact surface, master cable side           | tin-plated    |

## Cable/line

|                   |                                      |
|-------------------|--------------------------------------|
| Connection method | Rear FLK pin strip and MINI COMBICON |
|-------------------|--------------------------------------|

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## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                   |
|-------------------------------------------------------------------|-----------------------------------|
| Degree of protection                                              | IP54 (with sealed mounting holes) |
| Ambient temperature (operation) (male connector/female connector) | -30 °C ... 80 °C                  |
| Ambient temperature (storage/transport)                           | -30 °C ... 90 °C                  |

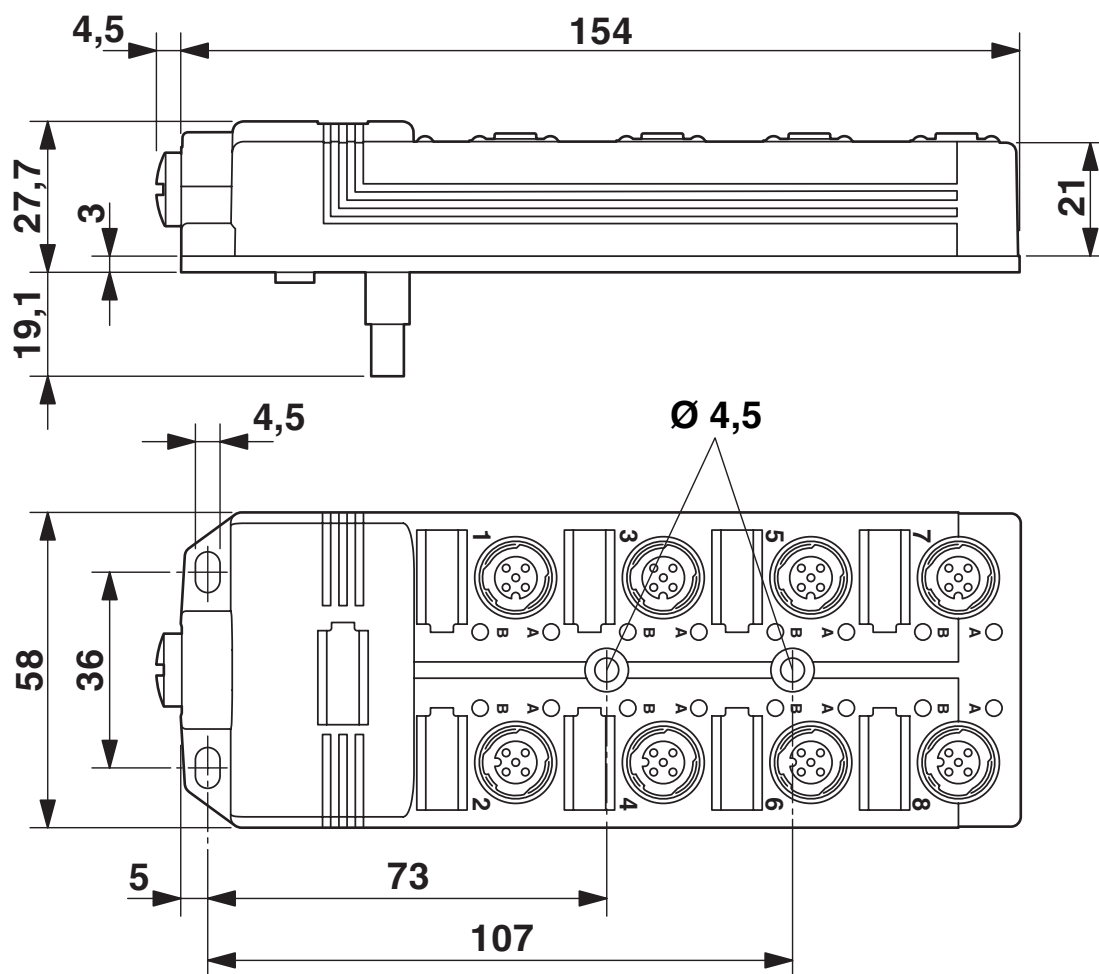
## Standards and regulations

### M12

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

## Drawings

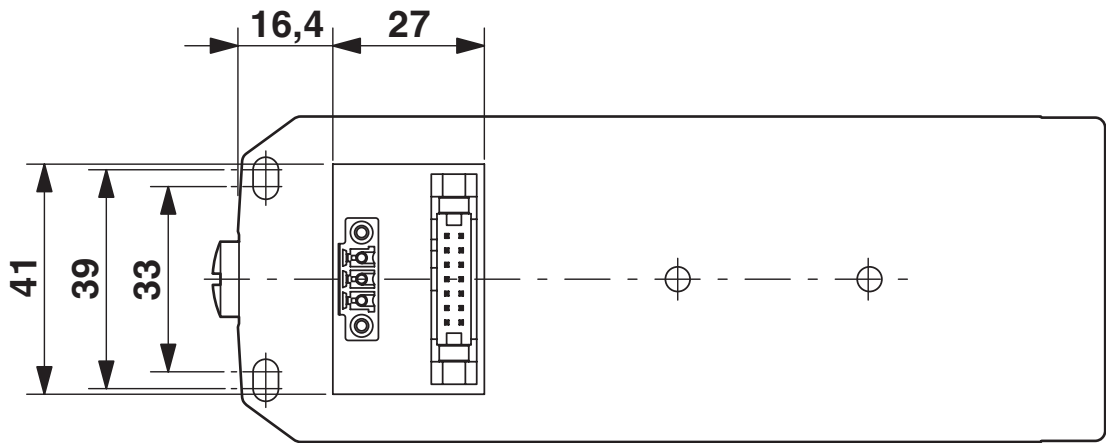
Dimensional drawing



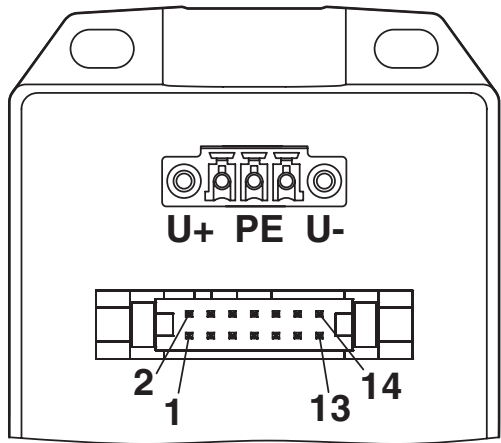
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Dimensional drawing

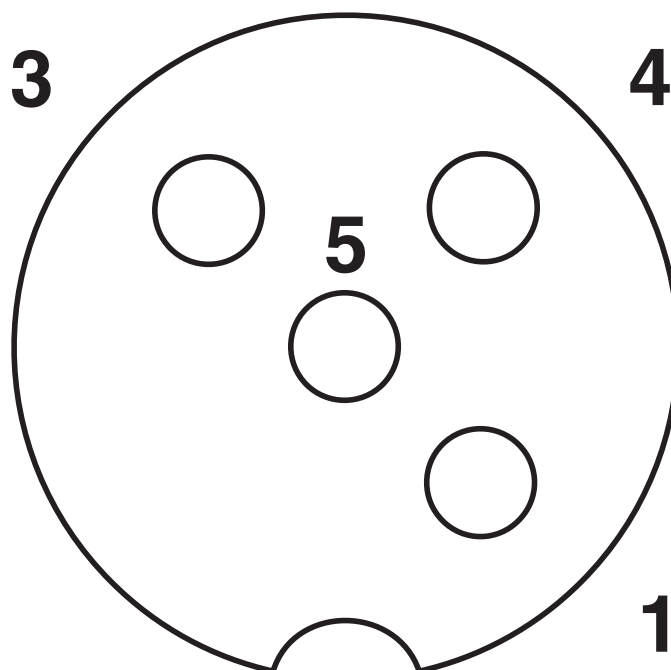


Connection diagram



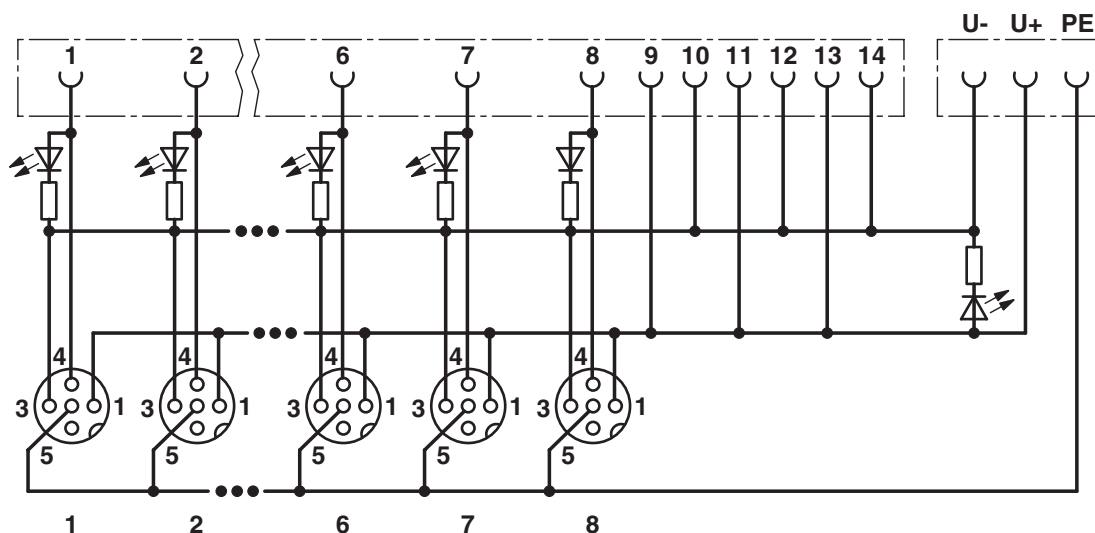
| FLK Connection | M12 Slots/pos. |
|----------------|----------------|
| 1              | 1 / 4          |
| 2              | 2 / 4          |
| 3              | 3 / 4          |
| 4              | 4 / 4          |
| 5              | 5 / 4          |
| 6              | 6 / 4          |
| 7              | 7 / 4          |
| 8              | 8 / 4          |
| 9              | 1-8 / 1 (+24V) |
| 11             | 1-8 / 1 (+24V) |
| 13             | 1-8 / 1 (+24V) |
| 10             | 1-8 / 3 (0V)   |
| 12             | 1-8 / 3 (0V)   |
| 14             | 1-8 / 3 (0V)   |

Schematic diagram



Pin assignment of M12 socket, 4-pos.

Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440111 |
| ECLASS-15.0 | 27440111 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251501 |
|-------------|----------|

Environmental product compliance

|                                        |                                                                                                                                                                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China RoHS                             |                                                                                                                                                                                                                                                                 |
| Environment friendly use period (EFUP) | <div>EFUP-50</div> <div>An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.</div> |
| EU REACH SVHC                          |                                                                                                                                                                                                                                                                 |
| REACH candidate substance (CAS No.)    | No substance above 0.1 wt%                                                                                                                                                                                                                                      |

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)