

## Sensor/actuator cable - SAC-5P-M12MS/ 3,0-927/M12FS VA - 1402948

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5-pos. cable, black PVC, shielded, shielded plug, straight M12, A-coded, on shielded socket, straight M12, A-coded with VA knurl, length: 3 m

RoHS

### Key Commercial Data

|                        |                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------|
| Packing unit           | 1 pc                                                                                                  |
| Minimum order quantity | 50 pc                                                                                                 |
| GTIN                   | <br>4 046356 637664 |
| GTIN                   | 4046356637664                                                                                         |

### Technical data

#### General

|                     |         |
|---------------------|---------|
| Rated voltage       | 48 V AC |
|                     | 60 V DC |
| Number of positions | 5       |

#### Cable

|                                     |                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------|
| Cable type                          | DeviceNet™                                                                  |
| Cable type (abbreviation)           | 927                                                                         |
| UL AWM style                        | 2464 (80°C/300 V)                                                           |
| Conductor cross section             | 2x 0.34 mm² (Signal line)                                                   |
|                                     | 2x 0.34 mm² (Power supply)                                                  |
|                                     | 1x 0.38 mm² (Drain wire)                                                    |
| AWG signal line                     | 22                                                                          |
| AWG power supply                    | 22                                                                          |
| Conductor structure signal line     | 44x 0.10 mm                                                                 |
| Conductor structure, voltage supply | 44x 0.10 mm                                                                 |
| Core diameter including insulation  | 2.55 mm (Signal line)                                                       |
|                                     | 1.37 mm (Power supply)                                                      |
| Thickness, insulation               | ≥ 0.3 mm (Wire insulation power supply)                                     |
| Wire colors                         | Red-black, blue-white                                                       |
| Twisted pairs                       | 2 cores to the pair                                                         |
| Type of pair shielding              | Aluminum-lined polyester foil                                               |
| Overall twist                       | 2 pairs with filler elements, around a drain wire in the center to the core |

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#### Cable

|                                               |                                          |
|-----------------------------------------------|------------------------------------------|
| Shielding                                     | Tinned copper braided shield             |
| Optical shield covering                       | 85 %                                     |
| External sheath, color                        | black                                    |
| Outer sheath thickness                        | ≥ 1 mm                                   |
| External cable diameter D                     | 8.3 mm ±0,3 mm                           |
| Minimum bending radius, fixed installation    | 4 x D                                    |
| Minimum bending radius, flexible installation | 8 x D                                    |
| Cable weight                                  | 83 kg/km                                 |
| Outer sheath, material                        | PVC                                      |
| Material conductor insulation                 | Foamed PP (Signal line)                  |
|                                               | PVC (Power supply)                       |
| Conductor material                            | Tin-plated Cu litz wires                 |
| Insulation resistance                         | ≥ 20 MΩ*km                               |
| Conductor resistance                          | ≤ 56 Ω/km                                |
| Working capacitance                           | approx. 39.8 nF (Signal line, Core-Core) |
|                                               | ≤ 4000 pF (Signal line, Core-Shield)     |
| Wave impedance                                | 120 Ω ±12 Ω (f = 1 MHz)                  |
| Signal runtime                                | 4.46 ns/m                                |
| Nominal voltage, cable                        | ≤ 300 V                                  |
| Test voltage, cable                           | 2000 V (50 Hz, 1 min.)                   |
| Flame resistance                              | in acc. with UL 1581, section 1061       |
| Ambient temperature (operation)               | -30 °C ... 80 °C                         |

#### Environmental Product Compliance

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

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