

Technical data sheet

Connection cable

Part no.: 50130937

KD U-M12-4W-P1-030-3DP

Contents

- Technical data
- Electrical connection
- Circuit diagrams



For illustration purposes only



Technical data

Basic data

| | |
|-------------|-----------------------------|
| Application | Oil and lubricant resistant |
|-------------|-----------------------------|

Electrical data

Performance data

| | |
|-------------------|--------------|
| Operating voltage | 24 V DC ±25% |
|-------------------|--------------|

Connection

Connection 1

| | |
|----------------------|--|
| Type of connection | Connector |
| Thread size | M12 |
| Type | Female |
| Handle body material | PUR |
| No. of pins | 4 -pin |
| Encoding | A-coded |
| Version | Angled |
| Connector, LED | Yes |
| Lock | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

Connection 2

| | |
|--------------------|----------|
| Type of connection | Open end |
|--------------------|----------|

Cable properties

| | |
|-----------------------------------|---|
| Number of conductors | 4 Piece(s) |
| Wire cross section | 0.34 mm ² |
| AWG | 22 |
| Sheathing color | Black |
| Shielded | No |
| Silicone-free | Yes |
| Cable design | Connection cable (open on one end) |
| Cable diameter (external) | 4.7 mm |
| Cable length | 3,000 mm |
| Sheathing material | PUR |
| Wire insulation | PP |
| Traverse rate | Max. 3.3 m/s with horiz. traverse path of 5m and max. acceleration of 5m/s ² |
| Suitability for drag chains | Yes |
| Properties of the outer sheathing | Free of CFC, cadmium, silicone, halogen and lead, matt, low-adhesion, abrasion-resistant, easily machine-processable |
| Resistance of the outer sheathing | Hydrolysis and microbe resistant, good oil, gasoline and chemical resistance in accordance with VDE 0472 part 803 test B, flame retardant in accordance with UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 |
| Torsion suitability | ±180° / m (max. 2 mio. cycles with 35 cycles / min) |

Mechanical data

| | |
|---|--------------------------|
| Width across flats | 13 mm |
| Net weight | 0.15 g |
| Bending cycles | 5,000,000 Piece(s) |
| Bending radius, flexible laying, min. | Min. 10 x cable diameter |
| Bending radius, stationary laying, min. | Min. 5 x cable diameter |

Operation and display

| | |
|----------------|------------|
| Number of LEDs | 3 Piece(s) |
|----------------|------------|

Environmental data

| | |
|--|---------------|
| Ambient temperature, operation, flexible use | -25 ... 80 °C |
| Ambient temperature, operation, stationary use | -40 ... 80 °C |

Certifications

| | |
|----------------------|---------|
| Degree of protection | IP 65 |
| | IP 67 |
| Approvals | c UL US |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| ECLASS 5.1.4 | 27279201 |
| ECLASS 8.0 | 27279218 |
| ECLASS 9.0 | 27060311 |
| ECLASS 10.0 | 27060311 |
| ECLASS 11.0 | 27060311 |
| ECLASS 12.0 | 27060311 |
| ECLASS 13.0 | 27060311 |
| ECLASS 14.0 | 27060311 |
| ECLASS 15.0 | 27060311 |
| ECLASS 16.0 | 27060311 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |
| ETIM 8.0 | EC001855 |
| ETIM 9.0 | EC001855 |
| ETIM 10.0 | EC001855 |
| UNSPSC 26.08 | 26121604 |

Electrical connection

Connection 1

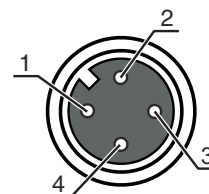
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| Thread size | M12 |
| Type | Female |
| Handle body material | PUR |

Electrical connection

Connection 1

| | |
|----------------|--|
| No. of pins | 4 -pin |
| Encoding | A-coded |
| Version | Angled |
| Connector, LED | Yes |
| Lock | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

| Pin | Conductor color |
|-----|-----------------|
| 1 | Brown |
| 2 | White |
| 3 | Blue |
| 4 | Black |



Connection 2

| | |
|--------------------|----------|
| Type of connection | Open end |
|--------------------|----------|

Circuit diagrams

Wiring schematic

