



**Bulkhead interface, USB 3.0 socket, Type A, Bezel: titanium**



**Part no.** M22-USB  
**Catalog No.** 147539  
**Alternate Catalog No.** M22-USB  
**EL-Nummer (Norway)** 0004315260

## Delivery program

|                                       |  |  |  |
|---------------------------------------|--|--|--|
| Accessories                           |  |  | General accessories                                    |
| Basic function accessories            |  |  | Bulkhead interface, RJ45 socket                        |
|                                       |  |  | USB 3.0 socket, Type A                                 |
| Degree of Protection                  |  |  | IP65 (with closed cover)<br>IP20 (with plug connected) |
| Front ring                            |  |  | Bezel: titanium  |
| Connection to SmartWire-DT            |  |  | no   |
| For use with                          |  |  | Front mounting   |
| Terminal diagram / contact assignment |  |  |  |

## Technical data

### Technical data

|                  |       |     |               |
|------------------|-------|-----|---------------|
| Nominal voltage  | $U_L$ |     | AC/DC 5V      |
| Voltage range    |       |     | Max. 30 V     |
| Rated current    |       | mA  | 900           |
| Number of poles  |       |     | 9             |
| Baud rate        |       | kBd | Max. 5 Gbit/s |
| Class / category |       |     | 3.0           |
| Contact type art |       |     | 1 : 1         |
| Screen earth kit |       |     | yes           |

### General

|                       |            |          |   |
|-----------------------|------------|----------|---|
| Design                |            |          | USB 3.0 A   |
| Insulation resistance | $R_{ISO}$  | MΩ       | $> \geq 100$  |
| Volume resistance     |            |          | $< 30 \text{ m}\Omega$  |
| Contact material      |            |          | CuSn, gold-plated   |
| Mounting              |            |          | Front panel cutout d = 22.5 mm  |
| Mounting depth:       |            | mm       | max. 27 (nicht gesteckt), entspricht ca. 100 mit Kabel gesteckt (Kabel nicht im Lieferumfang) |
| Ambient temperature   |            |          | -20 - +70   |
| Storage               |            | °C       | - 25 - + 80   |
| Lifespan, mechanical  | Operations |          | > 100 insertion cycles  |
| Weight                |            | kg/piece | 0.009   |

## Design verification as per IEC/EN 61439

|  |            |    |  |
|--|------------|----|--|
| Technical data for design verification |            |    |  |
| Heat dissipation capacity              | $P_{diss}$ | W  | 0  |
| Operating ambient temperature min.     |            | °C | -20  |
| Operating ambient temperature max.     |            | °C | 70   |
| IEC/EN 61439 design verification       |            |    |  |
| 10.2 Strength of materials and parts   |            |    |  |
| 10.2.2 Corrosion resistance            |            |    | Meets the product standard's requirements. |

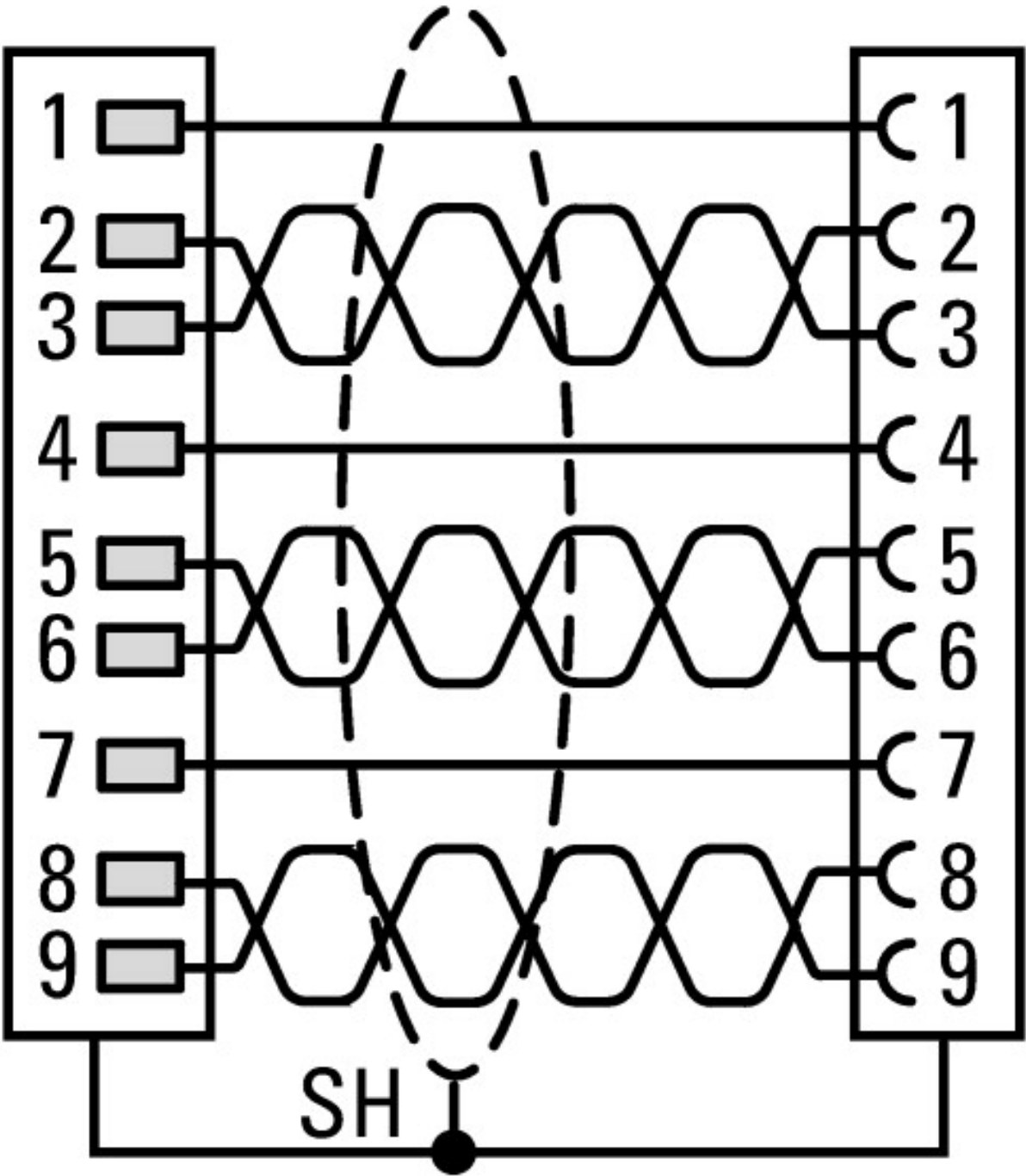
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|--|--|--|--|
| 10.2.3.1 Verification of thermal stability of enclosures   |  |  | Meets the product standard's requirements.   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat   |  |  | Meets the product standard's requirements.   |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |  |  | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation   |  |  | Please enquire   |
| 10.2.5 Lifting   |  |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.6 Mechanical impact   |  |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.7 Inscriptions  |  |  | Meets the product standard's requirements.   |
| 10.3 Degree of protection of ASSEMBLIES  |  |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.4 Clearances and creepage distances   |  |  | Meets the product standard's requirements.   |
| 10.5 Protection against electric shock   |  |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.6 Incorporation of switching devices and components   |  |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.7 Internal electrical circuits and connections  |  |  | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors   |  |  | Is the panel builder's responsibility.   |
| 10.9 Insulation properties   |  |  |  |
| 10.9.2 Power-frequency electric strength   |  |  | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage   |  |  | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material   |  |  | Is the panel builder's responsibility.   |
| 10.10 Temperature rise   |  |  | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating   |  |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.12 Electromagnetic compatibility  |  |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function  |  |  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

## Technical data ETIM 7.0

|   |  |  |       |
|---|--|--|-------|
| Low-voltage industrial components (EG000017) / Accessories for control circuit devices (EC002024) |  |  |       |
| Type of electrical accessory  |  |  | Other |
| Type of mechanical accessory  |  |  | Other |

## Approvals

|                             |  |  |  |
|-----------------------------|--|--|--|
| Product Standards           |  |  | UL 508; CSA-C22.2 No. 142; IEC/EN 6113-2; CE marking                                 |
| UL File No.                 |  |  | E330994  |
| UL Category Control No.     |  |  | DUXR, DUXR7  |
| CSA File No.                |  |  | UL report applies to both US and Canada  |
| CSA Class No.               |  |  | -  |
| North America Certification |  |  | UL listed, certified by UL for use in Canada   |
| Degree of Protection        |  |  | IEC: IP65 and UL/CSA NEMA Type 2, 3R, 4, 4X, 12, 13 when closed, IP20 when connected |



SH: Schirmung

