

# Technical data

## General features of the series

| ControlCenter-Compact Series   |                                                                             |                           |
|--------------------------------|-----------------------------------------------------------------------------|---------------------------|
| <b>Interfaces</b>              | Dynamic ports:                                                              | › see specific features   |
|                                | › The ports can be used to connect either a user module or a target module. |                           |
|                                | Network connection:                                                         | 2 × RJ45 socket           |
|                                | Power switch (RS 232):                                                      | 1 × RJ11 socket           |
|                                | › not supported by 8C variant                                               |                           |
|                                | RS485:                                                                      | 1 × RJ45 socket           |
|                                | › not supported by 8C variant › reserved for future functions               |                           |
|                                | USB 2.0                                                                     | 2 × USB-A socket          |
|                                | › not supported by 8C variant › reserved for future functions               |                           |
|                                | USB 3.0                                                                     | 1 × USB-A socket          |
|                                | › not supported by 8C variant › reserved for future functions               |                           |
| <b>Main power supply</b>       | Type:                                                                       | internal power pack       |
|                                | Connector:                                                                  | 1 × IEC plug(IEC-320 C14) |
|                                | Current consumption:                                                        | › see specific features   |
| <b>Redundant power supply</b>  | Type:                                                                       | internal power pack       |
|                                | Connector:                                                                  | 1 × IEC plug(IEC-320 C14) |
|                                | Current consumption:                                                        | › see specific features   |
| <b>Housing</b>                 | Material:                                                                   | anodised aluminium        |
|                                | Dimensions (W × H × D):                                                     | › see specific features   |
|                                | Weight:                                                                     | › see specific features   |
| <b>Operational environment</b> | Temperature:                                                                | +5 to+40 °C               |
|                                | Air humidity:                                                               | < 80%, non-condensing     |
| <b>Conformity</b>              | CE, RoHs                                                                    |                           |

## Specific features of the device

| <b>ControlCenter-Compact-8C</b>     |                         |                                                         |
|-------------------------------------|-------------------------|---------------------------------------------------------|
| <b>Interfaces</b>                   | Dynamic ports:          | 8 × RJ45 socket (CAT)                                   |
| <b>Power supply</b>                 | Current consumption:    | 100-240V/60-50Hz, 0.6-0.3A                              |
| <b>Housing</b>                      | Dimensions (W × H × D): | 435 × 44 × 211 mm                                       |
|                                     | Weight:                 | approx. 3.1 kg                                          |
| <b>ControlCenter-Compact-16C</b>    |                         |                                                         |
| <b>Interfaces</b>                   | Dynamic ports:          | 16 × RJ45 socket (CAT)                                  |
| <b>Power supply</b>                 | Current consumption:    | 100-240V/60-50Hz, 0.7-0.4A                              |
| <b>Housing</b>                      | Dimensions (W × H × D): | 435 × 44 × 211 mm                                       |
|                                     | Weight:                 | approx. 3.2 kg                                          |
| <b>ControlCenter-Compact-16F</b>    |                         |                                                         |
| <b>Interfaces</b>                   | Dynamic ports:          | 16 × LC duplex socket (Fiber)                           |
| <b>Power supply</b>                 | Current consumption:    | 100-240V/60-50Hz, 0.7-0.4A                              |
| <b>Housing</b>                      | Dimensions (W × H × D): | 435 × 44 × 211 mm                                       |
|                                     | Weight:                 | approx. 3.5 kg                                          |
| <b>ControlCenter-Compact-16F16C</b> |                         |                                                         |
| <b>Interfaces</b>                   | Dynamic ports:          | 16 × LC duplex socket (Fiber)<br>16 × RJ45 socket (CAT) |
|                                     | Current consumption:    | 100-240V/60-50Hz, 0.7-0.4A                              |
| <b>Housing</b>                      | Dimensions (W × H × D): | 435 × 44 × 211 mm                                       |
|                                     | Weight:                 | approx. 3.5 kg                                          |
| <b>ControlCenter-Compact-32C</b>    |                         |                                                         |
| <b>Interfaces</b>                   | Dynamic ports:          | 32 × RJ45 socket (CAT)                                  |
| <b>Power supply</b>                 | Current consumption:    | 100-240V/60-50Hz, 0.7-0.4A                              |
| <b>Housing</b>                      | Dimensions (W × H × D): | 435 × 44 × 211 mm                                       |
|                                     | Weight:                 | approx. 3.3 kg                                          |
| <b>ControlCenter-Compact-32F</b>    |                         |                                                         |
| <b>Interfaces</b>                   | Dynamic ports:          | 32 × LC duplex socket (Fiber)                           |
| <b>Power supply</b>                 | Current consumption:    | 100-240V/60-50Hz, 1.3-0.6A                              |
| <b>Housing</b>                      | Dimensions (W × H × D): | 435 × 44 × 284 mm                                       |
|                                     | Weight:                 | approx. 4.2 kg                                          |

**ControlCenter-Compact-32F16C**

|                     |                         |                                                         |
|---------------------|-------------------------|---------------------------------------------------------|
| <b>Interfaces</b>   | Dynamic ports:          | 32 × LC duplex socket (Fiber)<br>16 × RJ45 socket (CAT) |
| <b>Power supply</b> | Current consumption:    | 100-240V/60-50Hz, 1.5-0.7A                              |
| <b>Housing</b>      | Dimensions (W × H × D): | 435 × 88 × 284 mm                                       |
|                     | Weight:                 | approx. 5.8 kg                                          |

**ControlCenter-Compact-32F32C**

|                     |                         |                                                         |
|---------------------|-------------------------|---------------------------------------------------------|
| <b>Interfaces</b>   | Dynamic ports:          | 32 × LC duplex socket (Fiber)<br>32 × RJ45 socket (CAT) |
| <b>Power supply</b> | Current consumption:    | 100-240V/60-50Hz, 1.5-0.7A                              |
| <b>Housing</b>      | Dimensions (W × H × D): | 435 × 88 × 284 mm                                       |
|                     | Weight:                 | approx. 5.8 kg                                          |

**ControlCenter-Compact-32F48C**

|                     |                         |                                                         |
|---------------------|-------------------------|---------------------------------------------------------|
| <b>Interfaces</b>   | Dynamic ports:          | 32 × LC duplex socket (Fiber)<br>48 × RJ45 socket (CAT) |
| <b>Power supply</b> | Current consumption:    | 100-240V/60-50Hz, 1.5-0.7A                              |
| <b>Housing</b>      | Dimensions (W × H × D): | 435 × 88 × 284 mm                                       |
|                     | Weight:                 | approx. 5.8 kg                                          |

**ControlCenter-Compact-32F80C**

|                     |                         |                                                         |
|---------------------|-------------------------|---------------------------------------------------------|
| <b>Interfaces</b>   | Dynamic ports:          | 32 × LC duplex socket (Fiber)<br>80 × RJ45 socket (CAT) |
| <b>Power supply</b> | Current consumption:    | 100-240V/60-50Hz, 1.6-0.8A                              |
| <b>Housing</b>      | Dimensions (W × H × D): | 435 × 132 × 284 mm                                      |
|                     | Weight:                 | approx. 6.6 kg                                          |

**ControlCenter-Compact-48C**

|                     |                         |                            |
|---------------------|-------------------------|----------------------------|
| <b>Interfaces</b>   | Dynamic ports:          | 48 × RJ45 socket (CAT)     |
| <b>Power supply</b> | Current consumption:    | 100-240V/60-50Hz, 0.8-0.4A |
| <b>Housing</b>      | Dimensions (W × H × D): | 435 × 88 × 211 mm          |
|                     | Weight:                 | approx. 4.3 kg             |

**ControlCenter-Compact-64C**

|                     |                         |                            |
|---------------------|-------------------------|----------------------------|
| <b>Interfaces</b>   | Dynamic ports:          | 64 × RJ45 socket (CAT)     |
| <b>Power supply</b> | Current consumption:    | 100-240V/60-50Hz, 0.8-0.4A |
| <b>Housing</b>      | Dimensions (W × H × D): | 435 × 88 × 211 mm          |
|                     | Weight:                 | approx. 4.4 kg             |

| ControlCenter-Compact-80C  |                         |                            |
|----------------------------|-------------------------|----------------------------|
| Interfaces                 | Dynamic ports:          | 80 × RJ45 socket (CAT)     |
| Power supply               | Current consumption:    | 100-240V/60-50Hz, 0.9-0.4A |
| Housing                    | Dimensions (W × H × D): | 435 × 88 × 211 mm          |
|                            | Weight:                 | approx. 4.4 kg             |
| ControlCenter-Compact-128C |                         |                            |
| Interfaces                 | Dynamic ports:          | 128 × RJ45 socket (CAT)    |
| Power supply               | Current consumption:    | 100-240V/60-50Hz, 1.1-0.6A |
| Housing                    | Dimensions (W × H × D): | 435 × 132 × 284 mm         |
|                            | Weight:                 | approx. 5.9 kg             |
| ControlCenter-Compact-176C |                         |                            |
| Interfaces                 | Dynamic ports:          | 176 × RJ45 socket (CAT)    |
| Power supply               | Current consumption:    | 100-240V/60-50Hz, 1.4-0.7A |
| Housing                    | Dimensions (W × H × D): | 435 × 177 × 284 mm         |
|                            | Weight:                 | approx. 6.8 kg             |

## Features of fiber transmission modules

| MULTIMODE TRANSMISSION MODULE       |                                                            |                               |
|-------------------------------------|------------------------------------------------------------|-------------------------------|
| <b>Data transmission</b>            | Type:                                                      | Optical fibres (2 fibres)     |
|                                     | Type of interface:                                         | LC duplex                     |
| <b>Cable length (max.)</b>          | Multimode 62.5/125 µm:                                     | 100 meters                    |
|                                     | Multimode 50.0/125 µm, Class OM2:                          | 200 meters                    |
|                                     | Multimode 50.0/125 µm, Class OM3:                          | 400 meters                    |
| <b>Performance data</b>             | Wavelength( $\lambda$ ):                                   | 850 nm (830 nm bis 860 nm)    |
|                                     | Optical power output ( $P_{OUT}$ ) in 50 oder 62,5 µm MMF: | -9,0 dBm bis -2,5 dBm         |
|                                     | Receiving sensitivity ( $P_{MIN}$ ):                       | -15 dBm (OMA)                 |
|                                     | Sensitivity – Stressed ( $P_S$ ):                          | 138µW (50 µm MMF)             |
| SINGLEMODE (S) TRANSMISSION MODULE  |                                                            |                               |
| <b>Data transmission</b>            | Type:                                                      | Optical fibres (2 fibres)     |
|                                     | Type of interface:                                         | LC duplex                     |
| <b>Cable length (max.)</b>          | Singlemode 9/125µm, Class OS1:                             | 5 Kilometer                   |
| <b>Performance data</b>             | Wavelength( $\lambda$ ):                                   | 1310 nm (1260 nm bis 1350 nm) |
|                                     | Optical power output ( $P_{OUT}$ ) in 9 µm SMF:            | -9,5 dBm bis -3,0 dBm         |
|                                     | Receiving sensitivity ( $P_{MIN}$ ):                       | -18 dBm (OMA)                 |
| SINGLEMODE (S+) TRANSMISSION MODULE |                                                            |                               |
| <b>Data transmission</b>            | Type:                                                      | Optical fibres (2 fibres)     |
|                                     | Type of interface:                                         | LC duplex                     |
| <b>Cable length (max.)</b>          | Singlemode 9/125µm, Class OS1:                             | 10 Kilometer                  |
| <b>Performance data</b>             | Wavelength( $\lambda$ ):                                   | 1310 nm (1260 nm bis 1360 nm) |
|                                     | Optical power output ( $P_{OUT}$ ) in 9 µm SMF:            | -8,4 dBm bis -1,0 dBm         |
|                                     | Receiving sensitivity ( $P_{MIN}$ ):                       | -18 dBm (OMA)                 |