# Product datasheet

Specifications

## ConneXium Managed Switch - 14 ports for copper + 2 ports for fiber optic single-mode

TCSESM163F2CS0

## Main

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|---|---|
| **Range Of Product** | ConneXium |
| **Product Or Component Type** | Ethernet TCP/IP managed switch |
| **Concept** | Transparent Ready |
| **Communication Port Protocol** | Ethernet TCP/IP<br>SSH<br>HTTP<br>HTTPS<br>SNMP<br>RS232<br>LLDP<br>Telnet<br>SNTP<br>MRP (Media Redundancy Protocol) |
| **Port Ethernet** | 100BASE-FX - 2 port(s) fiber optic<br>10/100BASE-TX - 14 port(s) copper cable |
| **Maximum Number Of Switches In Cascade** | Unlimited |
| **Cybersecurity** | Port hardening |

## Complementary

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| **Integrated Connection Type** | Duplex SC fiber optic<br>Shielded RJ45 copper cable |
| **Transmission Support Medium** | Single mode optical fiber for copper cable<br>Twisted shielded pairs cable CAT 5E for fiber optic |
| **Maximum Cable Distance Between Devices** | 100 m copper cable |
| **Optic Fiber Length** | 32.5 km 9/125 µm |
| **Attenuation** | 0…16 dB (9/125 µm) |
| **Ethernet Service** | Configuration via web server<br>VLAN<br>Multicast filtering<br>Data stream control<br>IGMP Snooping<br>SNMP-Traps and SYSLOG |
| **Communication Service** | TFTP<br>Quality of Service (QoS)<br>Port monitoring<br>Port mirroring<br>Address conflict detection |
| **Diagnostics Run Time** | Signal contact<br>Self test |
| **Maximum Number Of Switches In A Ring** | 50 |
| **Redundancy** | HiPER ring<br>RSTP<br>Redundant network coupling |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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|---|---|
| **[Us] Rated Supply Voltage** | 12...48 V |
| **Supply Voltage Limits** | 9.6…60 V DC SELV<br>18…30 V AC SELV |
| **Power Consumption In W** | 11.8 W |
| **Electrical Connection** | Removable connector 6 ways power supply |
| **Mounting Support** | 35 mm symmetrical DIN rail |
| **Marking** | CE<br>UL<br>RCM<br>EtherNet/IP |
| **Function Available** | Alarms (Traps)<br>System information<br>Report<br>Trap log |
| **Local Signalling** | 1 dual colour LED (green/yellow) for P1 P2 power supplies<br>1 LED (red) for fault<br>1 dual colour LED (green/yellow) for ring manager<br>1 LED (green) for stand-by<br>1 LED per channel (green) for link status<br>1 LED per channel (yellow) for ACT<br>Device status |
| **Alarm Output** | 1 voltfree contact 1 A |
| **Alarm Function** | Power supply fault<br>Data link status<br>Redundancy ring fault<br>Switch fault |
| **Ethernet Cabling System** | TF switches |
| **Width** | 111 mm |
| **Height** | 131 mm |
| **Depth** | 111 mm |
| **Net Weight** | 0.6 kg |

# Environment

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|---|---|
| **Ambient Air Temperature For Operation** | 0…60 °C |
| **Relative Humidity** | 10…95 % non-condensing |
| **Ip Degree Of Protection** | IP20 |
| **Directives** | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility |
| **Standards** | UL 508<br>EN/IEC 61131<br>IEC 61850-3 |
| **Product Certifications** | CE<br>UL<br>RCM<br>ODVA EtherNet/IP<br>BV<br>GL |

# Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 12.7 cm |
| **Package 1 Width** | 16.2 cm |

| | |
|---|---|
| **Package 1 Length** | 23.5 cm |
| **Package 1 Weight** | 881.0 g |
| **Unit Type Of Package 2** | S03 |
| **Number Of Units In Package 2** | 4 |
| **Package 2 Height** | 30.0 cm |
| **Package 2 Width** | 30.0 cm |
| **Package 2 Length** | 40.0 cm |
| **Package 2 Weight** | 3.976 kg |

## Contractual warranty

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|---|---|
| **Warranty** | 18 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

Mercury Free

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|---|---|
| Rohs Exemption Information | Yes |

## Certifications & Standards

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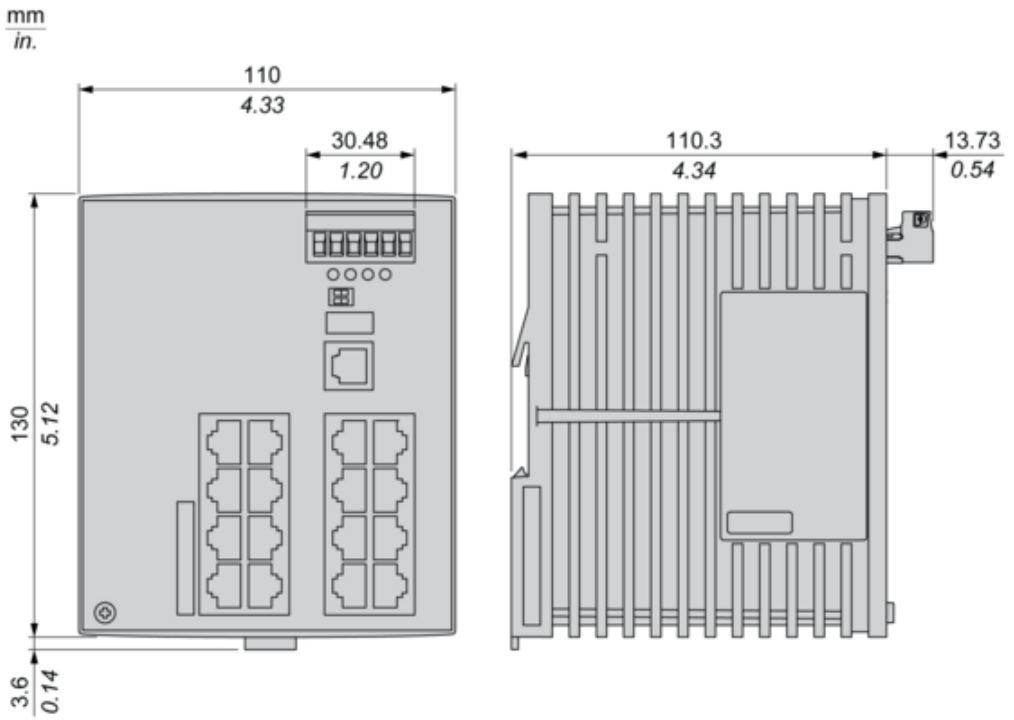
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Pro-active compliance (Product out of EU RoHS legal scope) |
| **China Rohs Regulation** | China RoHS declaration |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| **Circularity Profile** | End of Life Information |

Dimensions Drawings

**Dimensions**