

## Technical data sheet

Ethernet · Unmanaged E-CO Switch, 16-Port, 10/100 MBit/s

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**QoS - Quality of Service, PROFINET Conformance Class A**  
**16 Fast Ethernet ports RJ-45, compact design, energy management**  
**Redundant AC/DC supply, extended temperature range, ESD 6 kV**



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### Identification

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Type ET-SWU16E  
Part No. [772008](#)

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### Product version

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Datasheet version 02

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### Communication

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Standard	IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX/100BASE-FX IEEE 802.3x flow control and back pressure IEEE 802.1p Class of Service IEEE 802.3az Energy Efficient Ethernet (EEE) IEC 60068-2-32 (free fall), IEC 60068-2-27 (shock), IEC 60068-2-6 (vibration)
LAN	10/100 Base-TX RJ45 Auto-MDI/MDI-X
Cable length (segment)	Max. 100 m
Transfer rate	max. 10/100 Mbit/s
Connection technology (data)	16 × RJ45
Throughput (packet per second)	2.38 Mpps @ 64 bytes
Status display communication	System: Power 1 (P1): green Power 2 (P2): green Alarm, (Fault): red Per 10/100TX RJ45 Ports: 10/100 LNK/ACT: green
Switch architecture	Store-and-Forward
Shared data buffer	4 Mbit/s
Source Address Table	16K inputs, automatic source address learning and aging
FLOW Source	EEE 802.3x pause frame for full-duplex Back pressure for half-duplex
Switch Fabric	1 Gbps (non-blocking)

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SYSTEMATIC TECHNOLOGY

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### Safety

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ESD (Ethernet)	DC 6 kV
Surge (EFT for power)	DC 4 kV
Reverse voltage protection	Yes

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### Monitoring

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Error output	Relay, 1 NO contact - 1 A @ DC 24 V
Switching current	1 A @ DC 24 V
Switching voltage	AC 120 V / DC 28 V
Isolation voltage	DC 500 V

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### General

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Rated voltage $U_N$	DC 12 – 48 V redundant, AC 24 V
Nominal voltage range	9 V – 52 V
Rated current	5.3 W, DC: max. 0.17 A, AC: max. 0.15 A
Degree of protection	IP30
Relative humidity (operation)	5 % – 90 % (non-condensing)
Relative humidity (storage)	0 % – 90 % (non-condensing)
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715) Wall mounting
Installation position	Any
Connection type	6-pole pluggable screw terminal for power supply and fault diagnosis single wire/fine wire 0.25 mm <sup>2</sup> – 2.5 mm <sup>2</sup> AWG 20 – AWG 14 fine stranded wire with ferrule 0.25 mm <sup>2</sup> – 1.5 mm <sup>2</sup> AWG 20 – AWG 16
MTBF	>100000 h
Dimensions (w × h × d)	66.0 mm × 152.0 mm × 107.0 mm
Weight/unit	0.75 kg
PU (units)	1

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### General ambient conditions

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Operation temperature range	-40 °C ... +75 °C
Storage temperature range	-40 °C ... +75 °C

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### Approvals/Standards

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Approvals	CE FCC Part 15 Class A UKCA cULus (E332878)
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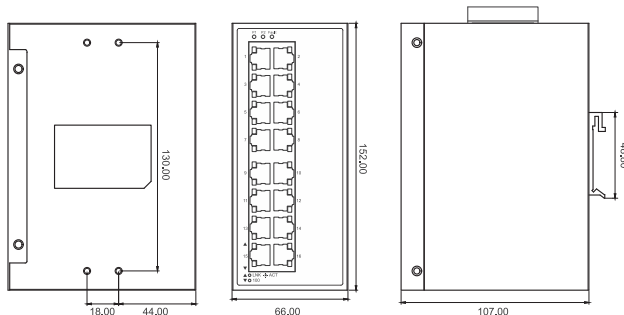
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## Standards

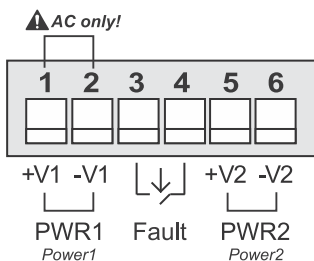
EN 55032  
 EN 55035  
 IEC 61000-4-2/3/4/5/6/8  
 IEC 60068-2-27  
 IEC 60068-2-32  
 IEC 60068-2-6

## Dimensions



## PIN assignment

Max. fault loading: 24V, 1A



## LED status

Anzeige Display Affichage	Farbe Color Couleur	Typ Type Type	Beschreibung Description Description
P1 ○ ○ ●	grün green vert	Power 1	grün an green on allumée en vert PWR 1 ist angeschlossen PWR 1 is connected Le PWR 1 est connecté
P2	grün green vert	Power 2	grün an green on allumée en vert PWR 2 ist angeschlossen PWR 2 is connected Le PWR 2 est connecté
Fault	rot red rouge	Fault	rot an red on allumée en rouge Die AC- oder DC-Spannung hat einen Fehler. The AC or DC voltage has an error. La tension AC ou DC présente une erreur.
10/100 ○ LNK ○ ACT	grün LINK/ACT green vert	10/100 LINK/ACT	grün an green on allumée en vert Der Port arbeitet mit 10/100 Mbps The port works with 10/100 Mbps Le port fonctionne avec 10/100 Mbps
○ LNK ○ ACT ○ 100	grün blinkt LINK/ACT green flashes cignotements verts	10/100 LINK/ACT	grün blinkt green flashes cignotements verts Der Port empfängt oder sendet Daten The port is actively sending or receiving data. Le port reçoit ou envoie des données