



**Part Number: OS20-000900T5T5TNEBH08.0**

Managed IP67 Switch, 9 ports, supply voltage 110 VDC, Software L2B, train approvals

**Product Description**

Managed IP 65 / IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 Basic, Fast-Ethernet (10/100 MBit/s) ports, electrical Fast-Ethernet (10/100 MBit/s) M12-ports

**Technical Specifications**

**Product description**

Type:	OS20-000900T5T5TNEBH08.0
Description:	The OCTOPUS switches are suited for outdoor applications with rough environmental conditions. Because of the branch typical approvals they can be used in transport applications (E1), as well as in trains (EN 50155) and ships (GL).
Part Number:	942025006
Port type and quantity:	9 ports in total uplink ports: 10/100 BASE-TX, M12 "D"-coding, 4-pole 9 x 10/100 BASE-TX TP-cable, auto-crossing, auto-negotiation, auto-polarity.

**More Interfaces**

Power supply/signaling contact:	1 x 7/8 inch 4-pin connector, 1 x M12 5-pin connector, A coding
V.24 interface:	1 x M12 4-pin connector, A coding

**Network size - length of cable**

Twisted pair (TP):	0-100 m
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**Network size - cascading**

Line - / star topology:	any
Ring structure (HIPER-Ring) quantity switches:	50 (reconfiguration time 0.3 sec.)

**Power requirements**

Operating Voltage:	72/110 VDC -30% / +25% (50,4 VDC .. 138 VDC)
Power consumption:	12 W
Power output in Btu (IT) / h:	41
Redundancy functions:	HIPER-Ring (client and server), MRP (client and server), RSTP - IEEE802.1w

**Software**

Management:	Serial interface V.24 web-interface, Telnet, SSHv2, HTTP, HTTPS, TFTP, SFTP, SNMP v1/v2/v3, Traps
Diagnostics:	LEDs (power, link status, data, redundancy manager, error) signalling contact, RMON (statistics, history, alarms, events), SysLog support, port mirroring
Configuration:	Command Line Interface (CLI), auto-configuration adapter, TELNET, BootP, DHCP Option 82, HiDiscovery
Security:	SNMP V3 (no encryption)

**Ambient conditions**

MTBF (Telcordia SR-332: Gb 25 °C):	73 Years
Operating temperature:	-40-+70 °C
Note:	Please note that some recommended accessory parts only support a temperature range from -25 °C to +70 °C and might limit the possible operating conditions for the entire system.

Storage/transport temperature:	-40-+70 °C
Relative humidity (also condensing):	5-100 %

## Mechanical construction

Weight:	1900 g
Mounting:	Wall mounting
Protection class:	IP65, IP67

## Mechanical stability

IEC 60068-2-6 vibration:	1 mm, 2 Hz-13.2 Hz, 90 min. 0.7 g, 13.2 Hz-100 Hz, 90 min. 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min. 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min
IEC 60068-2-27 shock:	15 g, 11 ms duration, 18 shocks

## EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD):	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field:	20 V/m (80-3000 MHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage:	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
EN 61000-4-6 Conducted Immunity:	3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)

## EMC emitted immunity

EN 55032:	EN 55032 Class A
FCC CFR47 Part 15:	FCC 47CFR Part 15, Class A

## Approvals

Basis Standard:	CE, EAC, Australian Regulatory Compliance Mark (RCM)
Safety of industrial control equipment:	cUL 60950
Railway norm:	EN 50155, EN 45545-2, EN 50121-4

## Scope of delivery and accessories

Accessories to Order Separately:	ACA11-M12 (EEC) (943 972-001), M12 connector, "D"-coded (934 445-001) 2 m cordset with M12-connector, "D"-coded (934 578-001) 5 m cordset with M12-connectors, "D"-coded (934 578-002) 10 m cordset with M12-connectors, "D"-coded (934 578-003) Bulkhead M12 "D"-coded to RJ45 (934 498-001), OCTOPUS metal dust cover set (25 pieces) (942 057-001), OCTOPUS plastic dust cover set (25 pieces) (942 057-002)*
Scope of delivery:	1 × Device, 1 x connector for power connection, General safety instructions
Update and Revision:	Revision Number: 0.30 Revision Date: 07-11-2019

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