



Product: OS20-0010004S4STREPHH ☑

Managed IP67 Switch, 10 ports, supply voltage 24 VDC, Software L2P

## **Product Description**

Managed IP 65 / IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 Professional, Fast-Ethernet (10/100 MBit/s) ports, electrical Fast-Ethernet (10/100 Mbit/s) and optical 100BASE-FX, Multimode-LWL ports in accordance with IEC 63076-3-106 Version 5

#### **Technical Specifications**

## **Product description**

Type:	OCTOPUS OS20-0010004S4STREPHH
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:	943988004
Port type and quantity:	10 ports in total uplink ports: 10/100 BASE-FX, single mode, housing acc. ISO/IEC 24702 and IEC 63076-3-106 Version 4 10 x 10/100 BASE-TX x 10/100 BASE-TX,M12 "D"-coding, 4-pole TP-cable, auto-crossing, auto-negotiation, auto-polarity.

## **Product Life Cycle**

Availability:	Passiv
Last Order Date:	2023-12-31
Last Delivery Date:	2024-06-30

## **More Interfaces**

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

## **Network size - length of cable**

Twisted pair (TP):	0-100 m
Single mode fiber (SM) 9/125 µm:	0-22.5 km, 12 dB link budget at 1310 nm, A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm*km)

## **Network size - cascadibility**

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

## **Power requirements**

Operating Voltage:	24/36 VDC -30% / +30% (16,845 VDC)
Power consumption:	9 W
Power output in BTU (IT)/h:	30.7
Redundancy functions:	redundant power supply

#### Software

Management:	Serial interface V.24 web-interface, Telnet, SSHv2, HTTP, HTTPS, TFTP, SFTP, SNMP v1/v2/v3, Traps
Diagnostics:	LEDs (power 1, power 2, link status, data, redundancy manager, error) cable tester, signaling 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:	Port Security (IP and MAC), SNMPv3, SSHv3, SNMP access settings (VLAN/IP), IEEE 802.1X authentication

## **Ambient conditions**

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	41 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**

Dimensions (WxHxD):	261 mm x 189 mm x 53 mm
Weight:	1750 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):	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field:	10 V/m (80-1000 MHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 1 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 50121-4
Transportation:	E1

# Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)

# Scope of delivery and accessories

	ACA22-M12 (EEC) (942 125-001), M12 conector, "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

## **Further Instructions**

Product Documentation:	https://www.doc.hirschmann.com
Certificates:	https://www.doc.hirschmann.com/certificates.html
Software Download:	https://hirschmann-support.belden.com/en-US/downloads

## History

Update and Revision: Revision Number: 0.104 Revision Date: 04-17-2024
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