




## Product information OCTOPUS OS30-0008021B1BTREPHH - OS30-0008021B1BTREPHH

Industrial Ethernet:Waterproof IP67/IP54 Switches:Managed Waterproof IP67/IP54 Switches:Gigabit Ethernet Managed Waterproof IP67 Switches:OCTOPUS OS30-0008021B1BTREPHH

<http://www.e-catalog.beldensolutions.com/link/57078-24455-49850-109276-124129-108275/en/conf/ui/istate>

Name	OCTOPUS OS30-0008021B1BTREPHH
	
	Managed IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 professional, electrical Fast-Ethernet (10/100 Mbit/s) and fibre-optic Gigabit-Ethernet (1000BASE-LX) singlemode ports according to IEC 63076-3-106 version 1
<b>Delivery informations</b>	
Availability	available
<b>Product description</b>	
Description	Managed IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 professional, electrical Fast-Ethernet (10/100 Mbit/s) and fibre-optic Gigabit-Ethernet (1000BASE-LX) singlemode ports according to IEC 63076-3-106 version 1
Port type and quantity	8 x 10/100 BASE-TX, M12 D coding, 4-pole, TP cable auto-crossing, auto-negotiation, auto-polarity 2 x 1000 BASE-LX singlemode, housing ISO/IEC 24702 and IEC 63076-3-106 Version 1
Type	OS30-0008021B1BTREPHH
Order No.	943 988-006
<b>More Interfaces</b>	
Power supply/signaling contact	1 x M12 5-pin connector, A coding
V.24 interface	1 x M12 4-pin socket, A coding
USB interface	1 x M12 5-pin socket, A coding
<b>Network size - length of cable</b>	
Twisted pair (TP)	0 m ... 100 m
Multimode fiber (MM) 50/125 µm	n/a
Multimode fiber (MM) 62.5/125 µm	n/a
Single mode fiber (SM) 9/125 µm	0-17.5 km, 10 dB link budget at 1310 nm, A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm*km)
<b>Network size - cascading</b>	
Line - / star topology	any
Ring structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 0.3 sec.)
<b>Power requirements</b>	
Operating voltage DC	16.8 V ... 45 V
Power consumption	9 W
Current consumption at 24 V DC	400 mA
<b>Software</b>	
Diagnostics	LEDs (power 1, power 2, link status, data, redundancy manager, error) cable tester, signalling contact, RMON (statistics, history, alarms, events), SysLog support, port mirroring
Configuration	Command Line Interface (CLI scripting), auto-configuration adapter (ACA21-M12), TELNET, BootP, DHCP Option 82, HiDiscovery
Security	Port security (IP and MAC), SNMP V3, SSHv3, SNMP access settings (VLAN/IP), IEEE 802.1X authentication
Other services	4 QoS queues, user priority (IEEE 802.1D/p), VLAN (IEEE 802.1Q), unknown multicast filtering, multicast support (IGMP Snooping/Querier, GMRP), broadcast limiter per port, ingress and egress packet limiter, Flow Control IEEE 802.3x, LLDP (topology discovery IEEE 802.1AB), Link Aggregation (IEEE 802.3ad), buffered real-time clock, PTP support (Precision Time Protocol) (IEEE 1588 client for system clock only), SNTP support (Simple Network Time Protocol, client/server)
Redundancy functions	HIPER-Ring (ring structure), RSTP (Rapid Spanning Tree Protocol, IEEE 802.1w), redundant network/ring coupling, redundant power supply
<b>Ambient conditions</b>	
Operating temperature	-40 °C ... 70 °C
Storage/transport temperature	-40 °C ... 85 °C
Relative humidity (also condensing)	10 % ... 100 %
MTBF	41 years; Telcordia, Gb 25 °C
<b>Mechanical construction</b>	
Dimensions (W x H x D)	261 mm x 189 mm x 53 mm



**Industrial Ethernet:Waterproof IP67/IP54 Switches:Managed Waterproof IP67/IP54 Switches:Gigabit Ethernet Managed Waterproof IP67 Switches:OCTOPUS OS30-0008021B1BTREPHH**

<http://www.e-catalog.beldensolutions.com/link/57078-24455-49850-109276-124129-108275/en/conf/ui/state>

<b>Mounting</b>	Wall mounting
<b>Weight</b>	1750 g
<b>Protection class</b>	IP67
<b>Mechanical stability</b>	
<b>IEC 60068-2-27 shock</b>	15 g, 11 ms duration, 18 shocks
<b>IEC 60068-2-6 vibration</b>	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
<b>EMC interference immunity</b>	
<b>EN 61000-4-2 electrostatic discharge (ESD)</b>	6 kV contact discharge, 8 kV air discharge
<b>EN 61000-4-3 electromagnetic field</b>	20 V/m (80-1000 MHz)
<b>EN 61000-4-4 fast transients (burst)</b>	2 kV power line, 1 kV data line
<b>EN 61000-4-5 surge voltage</b>	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
<b>EN 61000-4-6 conducted immunity</b>	3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)
<b>EMC emitted immunity</b>	
<b>FCC CFR47 Part 15</b>	FCC 47 CFR Part 15 Class A
<b>EN 55022</b>	EN 55022 Class A
<b>Approvals</b>	
<b>Safety of industrial control equipment</b>	cUL 508 (pending)
<b>Hazardous locations</b>	n/a
<b>Shipbuilding</b>	Germanischer Lloyd (pending)
<b>Employment in vehicles</b>	E1
<b>Electronic mechanisms on rail-mounted vehicles</b>	EN 50155
<b>Scope of delivery and accessories</b>	
<b>Scope of delivery</b>	covers for sealing unused ports, M12-connector (ELWIK 5012 PG7) for power connection, description and operating instructions
<b>Note</b>	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. Specially designed connector types with protection class IP 67 and extended temperature range are available on request. Furthermore unsealed accessories like RJ45 adapters or terminal access cables are certainly not suitable inside IP 67 areas.

For more information please contact:

**Hirschmann Automation and Control GmbH**

Stuttgarter Strasse 45-51

72654 Neckartenzlingen

Germany

Phone: +49 7127/14-1809

E-Mail: [inet-sales@belden.com](mailto:inet-sales@belden.com)

The information published in the websites has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect. The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.