

h HIRSCHMANN

Product information OCTOPUS 8M-Train-BP 942 091-001

Name	OCTOPUS 8M-Train-BP
	Managed IP 67 switch in accordance with IEEE 802.3, bypass relay, store-and-forward-switching, software layer 2 professional, Ethernet (10 Mbit/s) and Fa Ethernet (100 Mbit/s)
Delivery informations	
vailability	available
Product description Description	Managed IP 67 switch in accordance with IEEE 802.3, bypass relay, store-and-forward-switching, software layer 2 professional, Ethernet (10 Mbit/s) and Fa Ethernet (100 Mbit/s)
Port type and quantity	8 x 10/100 BASE-TX, thereof 2 with bypass relay, M12 D coding, 4-pole, TP cable auto-crossing, auto-negotiation, auto-polarity
Гуре	OCTOPUS 8M-Train-BP
Order No.	942 091-001
Nore Interfaces	
Power supply/signaling contact	1 x M12 5-pin connector, A coding
1.24 interface	1 x M12 4-pin socket, A coding
SB interface	1 x M12 5-pin socket, A coding
etwork size - length of cable	
wisted pair (TP)	0 - 100 m, at relay ports in total 0 - 100 m
lultimode fiber (MM) 50/125 μm	n/a
Aultimode fiber (MM) 62.5/125 μm	n/a
letwork size - cascadibility	
ine - / star topology	Any
ting structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 0.3 sec.)
Power requirements	00.05 to 50.0
Operating voltage	DC 9.6 to 60 V
Power consumption	max. 7 W
Current consumption at 24 V DC	270 mA
Current consumption at 48 V DC	140 mA
ervice Assessment	Serial interface, Web interface, SNMP V1/V2/V3 (HiVision/Industrial HiVision)
Management 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 Other services	Port security (MAC and IP address), SNMPv3, SSHv3, SNMP access settings (VLAN/IP), IEEE 802.1X authentication 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	
Redundancy functions	Bypass relay, HIPER-Ring (ring structure), RSTP (Rapid Spanning Tree Protocol, IEEE 802.1w), redundant network/ring coupling, redundant power supply
Ambient conditions	
Operating temperature	-40 °C to +70 °C
Storage/transport temperature	-40 °C to +85 °C
MTBF	73.3 years; Telcordia Gb 25 °C
Relative humidity Mechanical construction	10 to 100% (also condensing)
Dimensions (W x H x D)	184 mm x 189 mm x 70 mm

The information published has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price related/commercial respect.



Weight 1300 g Protection class IP 67 Mechanical stability EC 60068-2-27 shock 15 g, 11 ms duration, 18 shocks EC 60068-2-27 shock 15 g, 11 ms duration, 18 shocks EC 60068-2-27 shock 15 g, 11 ms duration, 18 shocks EC 60068-2-26 vibration 1 mm, 2 Hz - 13.2 Hz, 90 min.; 0,7g, 13.2 Hz - 100 Hz, 90 min.; 3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min. ENC Interference immunity KV contact discharge, 8 kV air discharge ENK 61000-4-2 electrostatic discharge (ESD) 4 kV contact discharge, 8 kV air discharge EN 61000-4-4 sectromagnetic field 20 V/m (80 - 3000 MHz) EN 61000-4-4 sectromagnetic field 20 V/m (80 - 3000 MHz) EN 61000-4-4 sectromagnetic field 20 V/m (80 - 3000 MHz) EN 61000-4-5 sorge voltage power line: 2 kV data line IN 61000-4-6 conducted immunity 10 V (150 kHz - 80 MHz) ENC CefR47 Part 15 FCC CFR47 Part 15 Class A Extraction mechanisms on rall-mounted vehicles EN 50122 Class A Stoppe of delivery and accessories EN 5012 PG7) for power connection, description and operating instructions Scope of delivery M12-connector (ELWIKA 5012 PG7) for power connecotion, description and operating instruction		
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N 61000-4-5 surge voltage power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line EN 61000-4-6 conducted immunity 10 V (150 kHz - 80 MHz) EMC emitted immunity FCC CFR47 Part 15 FCC CFR47 Part 15 FCC CFR47 Part 15 Class A EN 55022 EN 55022 Class A Approvals Electronic mechanisms on rail-mounted vehicles Electronic mechanisms on rail-mounted vehicles EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102 Scope of delivery and accessories Scope of delivery and accessories Scope of delivery M12-connector (ELWIKA 5012 PG7) for power connection, description and operating instructions Accessories to order separately Auto Configuration Adapter (ACA21-M12 EEC), order no. 943 931-002; modem cable (0CTOPUS Terminalkabel), order no. 943 902-001; field assembleable M12-connector (EM12S OCTOPUS), order no. 934 448-001; patchcords (EM12S 001Lxxxx 0CTOPUS), order no. 943 578-xxx; crossing M12 to RJ45 (EF12RJ45 0CTOPUS), order no. 943 498-001; OCTOPUS dust cover set (order no. 942 057-001) 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. Specially designed connector types with protection class IP67 and extended temperature range are available on request. Furthermore	EN 61000-4-3 electromagnetic field	20 V/m (80 - 3000 MHz)
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FCC CFR47 Part 15 FCC CFR47 Part 15 Class A EN 55022 EN 55022 Class A Approvals Electronic mechanisms on rail-mounted vehicles EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102 Scope of delivery and accessories M12-connector (ELWIKA 5012 PG7) for power connection, description and operating instructions Accessories to order separately M12-connector (ELWIKA 5012 PG7) for power connection, description and operating instructions Accessories to order separately Auto Configuration Adapter (ACA21-M12 EEC), order no. 943 931-002; modem cable (OCTOPUS Terminalkabel), order no. 943 902-001; field assembleable M12-connector (EM12S OCTOPUS), order no. 934 445-001; patchcords (EM12S 001Lxxxx OCTOPUS), order no. 934 902-001; field assembleable M12-connector (EM12S OCTOPUS), order no. 934 445-001; patchcords (EM12S 001Lxxxx OCTOPUS), order no. 934 902-001; field assembleable M12-connector (EM12S OCTOPUS), order no. 934 445-001; patchcords (EM12S 001Lxxxx OCTOPUS), order no. 934 902-001; field assembleable M12-connector (EM12S OCTOPUS), order no. 934 445-001; patchcords (EM12S 001Lxxxx OCTOPUS), order no. 934 902-001; field assembleable M12-connector (EM12S OCTOPUS), order no. 934 498-001; patchcords (EM12S 001Lxxxx OCTOPUS), order no. 934 902-001; field assembleable M12-connector 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 IP67 and extended temperatur	EN 61000-4-6 conducted immunity	10 V (150 kHz - 80 MHz)
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unsealed accessories like RJ45 adapters or terminal access cables are certainly not suitable inside IP67 areas.		for the entire system. Specially designed connector types with protection class IP67 and extended temperature range are available on request. Furthermore
		unsealed accessories like RJ45 adapters or terminal access cables are certainly not suitable inside IP67 areas.

The information published has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price related/commercial respect.