



HIRSCHMANN

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New Product Bulletin

NP 1025HE

Hirschmann™ Robust Unmanaged OCTOPUS Switch with 10 Fast Ethernet Ports

With the new unmanaged 10-port switch from its familiar OCTOPUS series, Hirschmann™ is offering a cost-effective variant that facilitates economical solutions, particularly in small decentralized networks with large numbers of terminals.



Robust Unmanaged OCTOPUS Switch from Hirschmann™: 10 Ports at an Advantageous Price

The new unmanaged Fast Ethernet switch from Hirschmann™'s familiar OCTOPUS series, which also supports automation protocols such as Profinet, EtherNet/IP and Modbus TCP, possesses ten twisted-pair ports (10/100 BASE-TX). The M12 connections with D coding withstand even powerful vibration. The unit's additional features include a robust, fire-proof, die-cast housing, protection class IP54 and a temperature range from -40°C to +70°C.

The OCTOPUS 10TX complies with all the relevant industry standards and is approved for use in road and rail vehicles and ships. This makes it particularly suitable for use in small-scale networks in transport, manufacturing and process automation – specifically, wherever management functions are not required.

The switch, which boasts a MTBF rating (mean time between failures) of 30 years, can be quickly and easily taken into use on the plug-and-play principle. On the front of the unit there are LEDs that display the device status, network status, and the presence of a functioning power supply. The fanless design and redundant 24V power supply guarantee high operational safety.

The OCTOPUS 10TX can be mounted on the wall or on the machine itself. It also occupies very little space – the compact housing measures only 184 x 189 x 70 mm (width x height x depth).

Advantages at a Glance:

- 10 Fast Ethernet ports
- Support for a variety of automation protocols
- M12 connections with D coding
- Fireproof housing
- Protection rating IP54
- Operating temperature range -40°C to +70°C
- Approved for rail, road and sea
- MTBF 30 years
- Fanless design
- Redundant power supply



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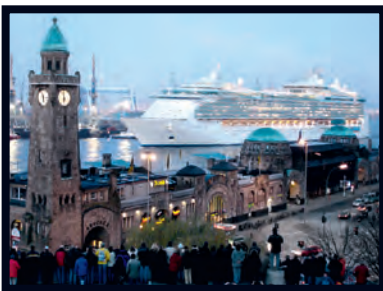
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The OCTOPUS family offers the complete solution for extreme environmental conditions.

Withstands any Load: The New OCTOPUS

Wherever reliable, intelligent and efficient data transmission has to be guaranteed under extreme conditions, the OCTOPUS family feels at home. Not only at the field level, in factory and process automation, but also in trains or on board ships – regardless of whether it needs to withstand great mechanical stress, vibrations, wet conditions, dirt or dust.

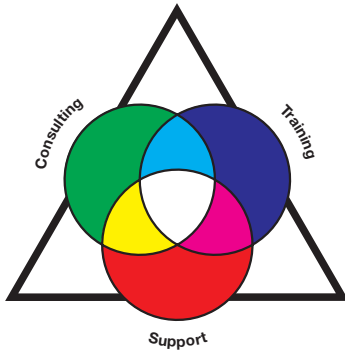
Due to their compact design, the products of the OCTOPUS family can be mounted either on the wall or directly on the machine. The waterproof variants of the proven Hirschmann™ switches have either 5, 8, 10, 16 or 24 twisted pair ports, designed in standardized 4-pin-M12-D technology. Since the switches can be cascaded according to your requirements, networks with a distributed structure and short transmission distances to the terminating equipment, can be implemented.





Technical Data

Product Description	
Description	Unmanaged switch in accordance with IEEE 802.3, store-and-forward-switching, Fast-Ethernet (10/100 Mbit/s) ports
Port type and quantity	10 x 10/100 BASE-TX, M12 D coding, 4-pole, TP cable auto-crossing, auto-negotiation, auto-polarity
Type	OS20-001000T5T5TAFUHB
Order No.	942 025-001
More Interfaces	
Power supply/signaling contact	1 x M12 5-pin connector, A coding, no signaling contact
Network Size - Cascadability	
Line - / star topology	any
Ring structure (HIPER-Ring)	quantity switches n/a
Power Requirements	
Operating voltage DC	19.2 V - 60 V
Power consumption	8 W
Ambient Conditions	
Operating temperature	-40°C to 70°C
Storage/transport temperature	-40°C to 85°C
Relative humidity (also condensing)	10 % to 100 %
MTBF	30 years; MIL-HDBK 217F; Gb 25°C
Mechanical Construction	
Dimensions (W x H x D)	184 mm x 189 mm x 70 mm
EMC Interference Immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	20 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	10 V (150 kHz - 80 MHz)
EMC Emitted Immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55022	EN 55022 Class A
Approvals	
Safety of industrial control equipment	cUL 60950-1 (pending)
Employment in vehicles	E1 (pending)
Electronic mechanisms on rail-mounted vehicles	EN 50155, EN 50121-4, DIN 5510-2, NF F 16-101, NF F 16-102



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Make sure you get an economical end-to-end solution for your network: in addition to its well-known products, Belden can also offer you a wide range of vendor-independent services. Whether it's consulting, training or support – at the Belden® Competence Center you can be sure of tailor-made service from a single supplier.

Whichever technology you use: our experts will support you all the way, from designing your network to optimizing the performance required in the operating phase. Up-to-date manufacturer's expertise, an international service network and fast access to external specialists guarantees you the best possible support. Bundle your individual service package today!

Always the Right Solution

Belden is the world's leading supplier of signal transmission solutions including cable, connectivity and active components for mission-critical applications ranging from industrial automation and alternative power generation through to professional broadcasting. Belden offers an extensive portfolio of highly specialized products for steering, control and field level, which the company produces and markets under its proprietary Belden®, Hirschmann™, Lumberg Automation™ and Trapeze Networks™ brands. We would be glad to give you a more personal introduction to our integrated product palette for industrial applications and the worldwide Belden Service.

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