Fiber-Optic IP67 Fast Ethernet Switch - *OCTOPUS OS20*
Fiber-Optic IP67 Gigabit Switch - *OCTOPUS OS30*

HIRSCHMANN
A BELDEN BRAND

Hirschmann™ OCTOPUS OS20 and OS30

On the factory floor, what is needed are technologically state-of-the-art Industrial Ethernet components that feature long-term resistance in harsh environments while guaranteeing a maximum of reliability and availability in operation.

With the new Fiber-Optic OCTOPUS OS20 and OS30 Switches Hirschmann™ now also offers IP67-Compliant Gigabit Ethernet Functionality, thus Setting a further Milestone for Powerful Switches in Harsh industrial Environments.

Extended OCTOPUS Family

Today, standardized and high-performing Industrial Ethernet is also being used at machine-oriented process levels, which until now were clearly dominated by field bus systems such as Profibus, CANopen or Interbus. This requires components and systems that are able to resist harsh factory floor conditions and guarantee a long service life.

The OCTOPUS system has been meeting all these requirements for years: With IP67 housings and robust industrial connectors in M12 technology, these switches ensure a reliable transmission in real time with high availability. The decentralized use of switches directly at field level allows to save significant installation and cabling costs. The powerful management functions of the Industrial Ethernet switches from Hirschmann™ provide redundancy mechanisms such as HIPER Ring or access control through IEEE 802.1X even at field level.

New Fiber-Optic Technology

With the new OCTOPUS OS20 and OS30 devices Hirschmann™ offers a significant technological advantage as regards transmission rate and operational security at the field level. Redundant ring ports allow for a reliable connection to the Ethernet backbone, which ensures that large data streams such as camera signals are guided through the network without data bottleneck. The fiber-optic technology guarantees interference-free connections. To this, standardized IP67 connectivity is now also available for installations in harsh environments without control cabinet.

Whenever reliable, intelligent and efficient data transmission has to be guaranteed under extreme conditions, the OCTOPUS family is what you need.

OCTOPUS IP67 System – Leading Technology at the Field Level

Properties of the OCTOPUS family:
Designed For Harsh Operation

Designed for harsh operation conditions. The key feature of the OCTOPUS series is the waterproof metal housing. It allows to use the switches under wet or condensing humidity conditions. In combination with the wide temperature range and the vibration-resistant M12 Ethernet connectors, the OCTOPUS switches ensure the highest level of operational security of the network.

Special Approval

- Rail: EN50155
- Fire protection: NF F16101/102
- Ships: GL (pending)
- Vehicles: E1 (pending)

Powerful Switch Management:

- Hirschmann™ Professional Software package
- HIPER ring redundancy
- Full SNMP management
- Topology detection with LLDP

Made in Germany

- Competent service, consulting and support from Hirschmann™
- Highest Hirschmann™ product quality

OCTOPUS OS 20 / OS 30:
Security Through Fiber Optics

Malfunctions are often caused by the data cables. Especially in the field, cables are frequently subject to electromagnetic interference. Fiber-optic cables are completely insensitive to EMI. IEC-compliant IP67 connectors allow for proven fiber-optic connectivity without control cabinet.

Fiber-Optic Connections

- IP67 connectors acc. to IEC 61 076-3-106 variants 1 and 4
- Support for multi-mode and single-mode fibers

OCTOPUS OS20:

- 2 fiber-optic Fast Ethernet ports
- 8 electrical Fast Ethernet ports

OCTOPUS OS30:

- 2 fiber-optic Gigabit Ethernet
- 8 electrical Fast Ethernet ports

Vector InfoTech

IP 67 INDUSTRIAL SWITCHES

Gigabit Down to Field level

Robust design
- Metal housing
- Cabinet-free assembly at the machine

GE / FE fiber-optic ports
- IP67 connectors acc. to IEC standard
- Multi-mode or single-mode

Comprehensive functionality
- HIPER ring and rapid STP
- package filter (ACL)
- SNMP v3
- IEEEE 802.1x ... and many more

Efficient connection technology
- Proven industrial M12 connectivity

Auto-configuration
- USB support via ACA21-M12 connectors
- Saves several versions of the configuration data and operating software of connected switches
- Easy commissioning
- Quick exchange of switches with no IT skills required

Variant 1 / Variant 4

EtherNet/IP

IEC 61076-3-106 Variant 1	Multi-Mode Fiber-Optics	Single-Mode Fiber-Optics
Fast Ethernet	Fiber-Optic up to 4 km 943 988-001	Fiber-Optic up to 22 km 943 988-002
Gigabit Ethernet	Fiber-Optic up to 550 m 943 988-005	Fiber-Optic up to 17 km 943 988-006

PROFINET

IEC 61076-3-106 Variant 4	Multi-Mode Fiber-Optics	Single-Mode Fiber-Optics
Fast Ethernet	Fiber-Optic up to 4 km 943 988-003	Fiber-Optic up to 22 km 943 988-004
Gigabit Ethernet	Fiber-Optic up to 550 m 943 988-007	Fiber-Optic up to 17 km 943 988-008