



HIRSCHMANN

A BELDEN BRAND

New Product Bulletin

NP 1010HE

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.

For more information on the reliable OCTOPUS solutions from Hirschmann™ please visit www.hirschmann.com.



OCTOPUS IP67 System – Leading Technology at the Field Level

Extended OCTOPUS IP67 Family from Hirschmann™

OCTOPUS OS20 – Fiber-Optic IP67 Fast Ethernet Switch

OCTOPUS OS30 – Fiber-Optic IP67 Gigabit Switch

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 ports
- 8 electrical Fast Ethernet ports





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

Efficient connection technology

- Proven industrial M12 connectivity

Comprehensive functionality

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

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



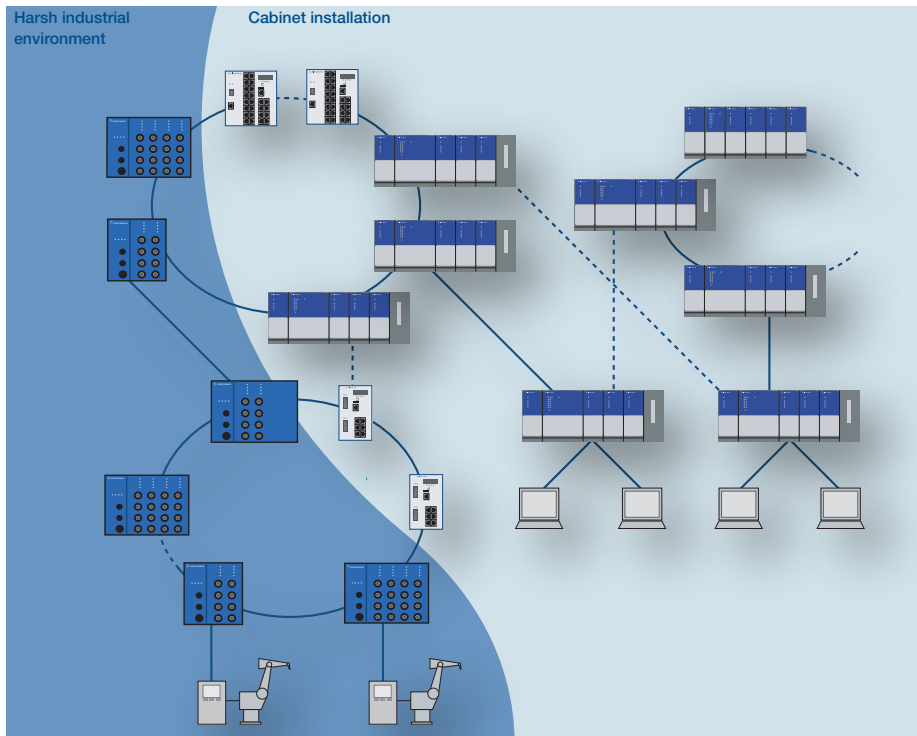
IEC 61076-3-106 Variant 1	Multi-mode fiber-optics	Single-mode fiber-optics
Fast Ethernet	Fiber-optic up to 4 km 943 988-001	Fiber-optic up to 22 km 943 988-002
Gigabit Ethernet	Fiber-optic up to 550 m 943 988-005	Fiber-optic up to 17 km 943 988-006

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





Industrial Networks for Demanding Tasks



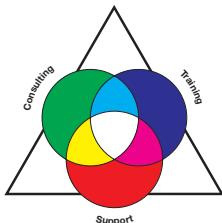
Always the Right Solution

Belden is one of the world's leading suppliers of signal transmission solutions including cable, connectivity and active components for mission-critical applications ranging from industrial automation to data centers, broadcast studios, and aerospace. Belden offers an extensive and highly specialized product portfolio of signal transmission solutions for information, control and field levels, which the company produces and markets under its proprietary Belden®, Hirschmann™ and Lumberg Automation™ brands.

We would welcome the opportunity to tell you more about our extensive industry portfolio and Belden worldwide service. Further information and technical data are available online at www.beldensolutions.com. You can also contact our sales team directly by dialing +49 7127 14 1809.

With this range of OCTOPUS products Hirschmann™ fully meets the high requirements of customers and markets alike and underlines its role as pioneer. Proving their high solution competence, Hirschmann™ effectively rounds off the comprehensive range of Belden products and solutions in the IP67 segment.

Belden® Competence Center



Be sure to opt for a complete business solution for your network. Besides the known product portfolio, Belden offers you a complete range of manufacturer-independent services. Whether consulting, training or support – the Belden® Competence Center provides tailor-made services from one source. No matter which technology you are using.

Our experts will support you from the network design stage to the optimization of operational measures. Up-to-date manufacturing expertise, an international service network and quick access to external specialists guarantee the best possible assistance. Come and arrange your personal service package now!