IP20 Ethernet Switches and Media Converter





For industrial and harsh commercial environments where the need for IP 67 connectivity is not required. Ethernet switching components can be housed in a protective controls enclosure. However, the vibration and temperature operating ranges offered by standard datacoms switches and media converters are often not sufficient to perform reliably in many applications leading to the risk of data loss, production or system downtime, and the need for often costly repair and maintenance.

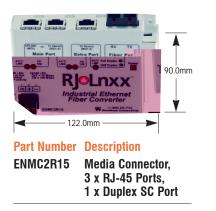
The range of Woodhead Connectivity IP20 DIN rail mount Ethernet switches and copper to fibre media converter have been designed to provide reliable performance while being subjected to extremes of temperature and vibration. Where an IP67 rated connection is required, external Ethernet enabled field devices or other enclosures can be connected to the switch by fitting one of the range of RJ-Lnxx bulkhead receptacles to the enclosure wall. Woodhead's RJ-45 and fibre optic connectors complete the connectivity package.

IP20 Ethernet Switches

Designed for standard DIN 50022 rail or screw mounting for guick, simple installation in an industrial enclosure, the switches are available in both 5 and 9 port versions. The dedicated uplink port can be specified for use with either copper (RJ-45) or fibre (SC) duplex connecters to suit network design. An extended temperature operating range of -40°C to 85°C allows use in extreme conditions, without the need for costly climate controls. The switches are also Class 1, Div2 rated for use in hazardous environments. Unmanaged Store & forward switch with address auto learning and 10/100 autonegotiation enhances bandwidth efficiency, aiding determinism for control applications. No programming required allowing the switches to be installed and carrying data in minutes.

IP20 Media Converter

Where it is uneconomic or impractical to install a complete fibre optic network, the RJ-Lnxx Media Converter enables a fiber backbone to be run into the industrial enclosure by providing an interface to a local copper network. This DIN rail mount unit features one fibre (SC) and two copper (RJ-45) ports and is designed to withstand the extremes of temperature and vibration often found in an industrial environment.



Specifications

Electrical:

Required Power:	10 – 30 V DC
Power Consumption:	1.9 Watts Typical
Network Isolation:	1200V RMS for 1 min.
Environmental/Mechanical:	
Operating Temperature:	-40°C to +85°C
Humidity:	5 to 95% (non-condensing)
Power Connection:	3 pole screw terminal
Environmental Rating:	IP20
Electrical Safety:	UL 508
Hazardous Location:	UL 1604, CSA 22.2/213 (Class 1, Div.2)
EMI Emissions:	FCC Part 15, Class B
EMC Immunity:	EN61326-1

IEC68-2-6

Network:

Buffers:

Protection:

Flow Control:

Copper Ports: Fibre Port: **Ethernet Standards: Ethernet Protocols: Speed per Port:**

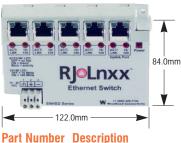
Broadcast Storm

Total Bandwidth:

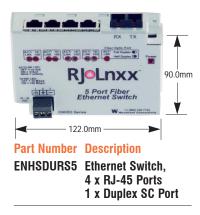
Vibration Resistance:

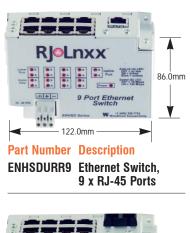
Shielded RJ-45, 10/100BaseT(X) autonegotiate Multi-Mode SC, 100BaseFX, 1300 nm centre IEEE 802.3, 802.3U, 802.3X All standard IEEE 802.3 protocols 10 or 100Mbs (half duplex) 20 or 200Mbs (full duplex) 1024,128 Byte buffers available

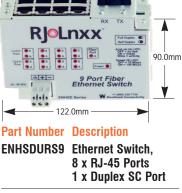
Broadcasts limited to 25% of available bandwidth Supported for both transmit and receive Back Pressure Function: Inhibit stations from transmitting 1.4Gbps



ENHSDURR5 Ethernet Switch, 5 x RJ-45 Ports







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