



**Direct-Link™ Industrial Ethernet switches intelligently route Ethernet messages, eliminating collisions and providing deterministic performance.**

## Industrial Ethernet Switch

### Series 200 - Unmanaged

#### Features

- 5-, 8- and 9-port unmanaged switches
- Plug and Play - no setup required
- Auto-sensing, auto-polarity and auto-crossover
- DIN rail or panel mount
- Redundant, dual DC power inputs

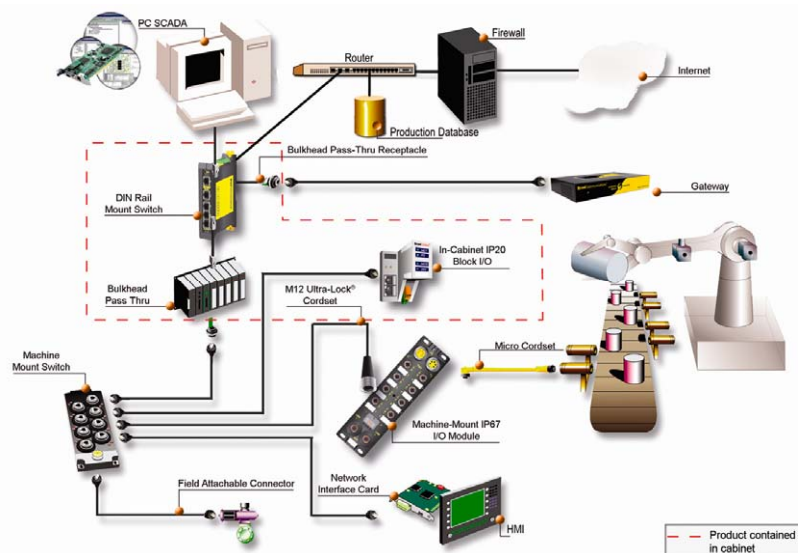


#### Overview

Ethernet switches allow all devices to transmit simultaneously, without collision. This is essential for enabling deterministic delivery of time-critical information. Switches are intelligent devices, keeping track of device locations; this allows messages to be transmitted only from the necessary port, improving the overall performance of the network.

#### Ask about the complete line of BradCommunications™ Industrial Ethernet Switches

- IP67 unmanaged switches for machine-mount applications
- IP30 managed and unmanaged switches for in-cabinet applications
- SNMP Management Suite for real-time analysis and network performance management



--- Product contained in cabinet

Woodhead



**BradCommunications™**

# Industrial Ethernet Switch



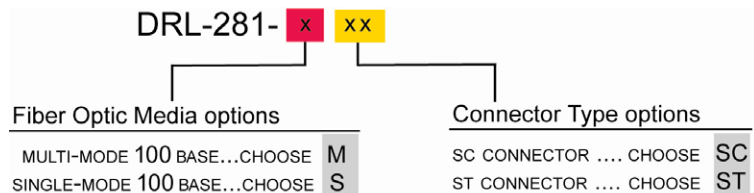
## Technical Information

Ethernet protocols supported	IEEE 802.3 protocols	Input power	Typical-all ports active at 100 Mbps 3.6W to 6.3W (refer to user's manual)
RJ45 ports (shielded)	10 BaseT / 100 BaseTX	Input voltage	10 – 30 V
RJ45 speed (10 or 100 Mbps)	Auto-negotiation	Ethernet isolation	1500 VRMS 1 minute
RJ45 MDI / MDIX and TD/RD	Auto-crossover & auto-polarity	Operating temperature	-10°C to 60°C (14°F to 140°F)
Fiber optic port wavelength	1300 nm center	Storage temperature	-40°C to 85°C (-40°F to 185°F)
Fiber optic multi-mode (mm) optimal	62.5/125 µm (SC or ST connector)	Humidity (non-condensing)	5 to 95% RH
Fiber maximum distance (full duplex)	4 km (mm)	Vibration	IEC68-2-6
Fiber optic single-mode (sm) Optimal	9/125 µm (SC or ST connector)	Electrical safety	EN61010-1 (IEC61010)
Fiber maximum distance (full duplex)	20 km (sm)	EMI emissions	FCC part 15, ICES 003, EN55011 ; Class A
Typical latency for 100 Mbps ports	5 µs + frame time (varies on load)	EMC immunity	EN61326
Full or half duplex operation	RJ45: full / half duplex Fiber: full duplex	UL approval	UL 508 (E205563) UL 1604 (E314891) - Class 1, Div 2 - Groups A, B, C & D Hazardous Locations
		Dimensions	Height: 142.24mm (5.60") Depth: 102.36mm (4.03") Width: 5-port: 27.18mm (1.07") 8- or 9-port: 38.74mm (1.525")
MAC addresses supported	1024 (5 port) / 2048 (8 port)		
Mounting	DIN rail or panel mount		
Packaging	IP30 protection		

## Ordering Information

Part Number	Product Description
DRL-241-xxx	Industrial 5-port Ethernet switch, unmanaged, 4 RJ45, 1 fiber
DRL-250	Industrial 5-port Ethernet switch, unmanaged, 5 RJ45
DRL-280	Industrial 8-port Ethernet switch, unmanaged, 8 RJ45
DRL-281-xxx	Industrial 9-port Ethernet switch, unmanaged, 8 RJ45, 1 fiber

Complete part numbers ending with **xxx**  
as follows using DRL-281 as an example:



Ethernet Switches

**Brad**<sup>®</sup>  
from **molex**

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