

# New Product Information Release

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## SFN Ethernet Switches

**We make Ethernet Flexible!**



### Description

Our new SFN switches can be used to extend Ethernet networks easily and cost-effectively. Quality of Service (QoS) ensures that high priority data is delivered consistently and predictably, a feature not found in any other industrial unmanaged switch in the market.

The new SFN 5- and 8-port switches provide low-cost, fully industrially hardened, entry-level switch functions with five or eight ports (10/100 Mbps) in a narrow housing width. These include a complete range of 100Mbps glass fibre configurations which support SC or ST style connectors.

Each SFN switch includes the unique ability to add optional security frames that can be used to block unused RJ45 ports and lock in existing cables. This "physical layer 1" security restricts network access by unauthorised personnel, and yet is easy for plant floor personnel to implement.

For added performance in times of heavy network traffic, all SFN switches have the ability to read "Quality of Service" prioritized messages and process critical control messages before normal priority messages. The new SFN switches, combined with the current SF switch product line, provide the widest breadth of cost-effective Ethernet available today.

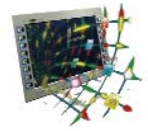


### Features/Benefits

- Universal use in switch cabinets and junction boxes with its slim housing design
- Compliant with IEC-61.000-4 for noise immunity, shock and vibration requirements
- 24VDC, DIN rail mountable, pluggable connector
- Five or eight Ethernet ports with Fibre Optic options in either SC or ST connection technology
- Auto-negotiation function for transmission rates of 10/100 MBit/s in hybrid operation
- Auto-crossing function: Differentiate is not required between crossover cable and straight through cable (1:1)
- Quality of Service (QoS) ensures that high priority data is delivered consistently and predictably. This feature is unique amongst industrial unmanaged switches
- Reads pre-prioritized messages compatible with IT standard IEEE 802.1p message prioritization. Suitable for Profinet applications
- "Layer 1" Port Security prevents easy access by blocking unused ports
- CE, cUL, Class 1, Div 2

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## Widest Range of Unmanaged Switch Solutions

10/100 Mbps Twisted Pair Ports	Multi-Mode Fibre Optic SC	Multi-Mode Fibre Optic ST	Form Factor/ Housing Design	Alarm Contact & Redundant Power	Layer 1 Port Security option	Type	Order No.
4	1	-	Narrow		✓	FL SWITCH SFN 4TX/FX	2891851
4	-	1	Narrow		✓	FL SWITCH SFN 4TX/FX ST	2891453
4	-	3	Flat	✓		FL SWITCH SF 4TX/3FX ST	2832603
5	-	-	Narrow		✓	FL SWITCH SFN 5TX	2891152
6	2	-	Narrow		✓	FL SWITCH SFN 6TX/2FX	2891314
6	2	-	Flat	✓		FL SWITCH SF 6TX/2FX	2832933
6	-	2	Narrow		✓	FL SWITCH SFN 6TX/2FX ST	2891411
6	-	2	Flat	✓		FL SWITCH SF 6TX/2FX ST	2832674
7	1	-	Narrow		✓	FL SWITCH SFN 7TX/FX	2891097
7	1	-	Flat	✓		FL SWITCH SF 7TX/FX	2832726
7	-	1	Narrow		✓	FL SWITCH SFN 7TX/FX ST	2891110
7	-	1	Flat	✓		FL SWITCH SF 7TX/FX ST	2832577
8	-	-	Narrow		✓	FL SWITCH SFN 8TX	2891929
8	-	-	Flat	✓		FL SWITCH SF 8TX	2832771
14	2	-	Flat	✓		FL SWITCH SF 14TX/2FX	2832593
15	1	-	Flat	✓		FL SWITCH SF 15TX/FX	2832661
16	-	-	Flat	✓		FL SWITCH SF 16TX	2832849

The technical differences and application areas between the SF and SFN are summarised below:

Function	SF 8 & 16 Port Switches	SFN 5 & 8 Port Switches
Data Rate (all ports)	10/100	10/100
Rail Space, 5 ports	-	30mm
Rail Space, 8 ports	94 mm / 135 mm	53mm
Rail Space, 16 ports	200 mm	-
Mult-Mode Fibre (SC) options	1 & 2 FX	1 FX (5 port), 1 & 2 FX (8 port)
Singlemode Fibre (SC) options	None	None
Alarm Contact & Redundant Power	Yes	No
Temperature	0 to 55c	0 to 60c
Quality of Service (QoS)	No	Yes
Layer 1 Port Security	No	Yes
Top LED / Port	LNK/ACT	LNK/ACT
Bottom LED/Poer	100	100
Agency Approvals	CE, cUL, C1D2	CE, cUL, C1D2, GL, LR, NK, ABS
EMI / Shock / Vibration	61000-4 / 25G / 5G	61000-4 / 25G / 5G
Typical Application	Cost effective solution for systems requiring alarm contact and redundant power, limited depth, or 16 ports	Cost effective solution for small & entry level OEMs with limited DIN rail space