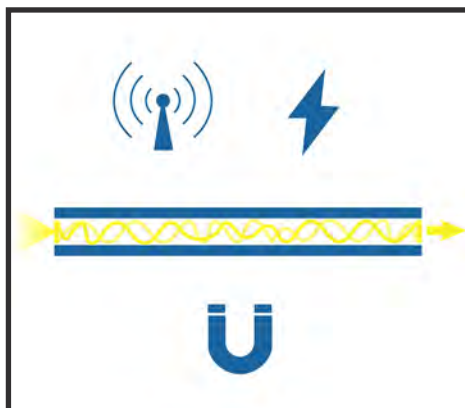# SW-581

INDUSTRIAL GIGABIT SFP MEDIA CONVERTER
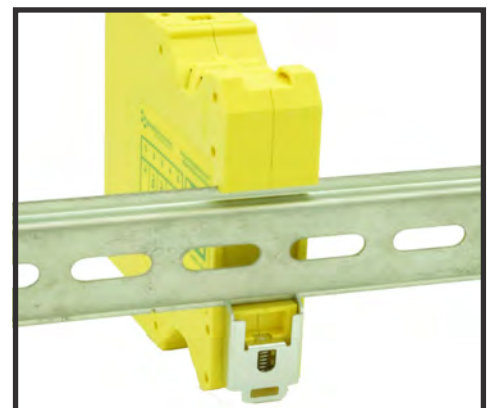(SFP module not included)

- Cost-effective connectivity - economical way to integrate devices into a fibre optic network
- Plug and play integration - simple, targeted setup
- Allows for extended range and reliability of fibre optics
- Easy transition - bridge legacy devices and newer fibre optic infrastructure
- Industrial temperature range: -40°C to +80°C/-40°F to +176°F - works in extreme conditions
- Jumbo Frame support up to 9K frames
- Integral DIN mount
- SFP Port Power Overcurrent protection

SFP	IP20	1	+80°C / -40°C	5-30VDC	DIN

Scalability: combine with other switches in the range to create a comprehensive and future-proof network solution

Fibre cables are immune to any electrical/magnetic interference, and require no cumbersome isolation devices to guard against high EMI/RFI or lightning strikes

Integral DIN mount and slim design takes up minimal cabinet space

SW-581 INDUSTRIAL GIGABIT SFP MEDIA CONVERTER

Jumbo Frame support up to 9k frames

All Ethernet ports are Auto MDI/MDIX supporting straight through or crossover Ethernet cables

Integral DIN mount with ground

Automatic detection of data transmission speed: 10 or 100 or 1000 Mbps

SFP Power Current Overprotection

-40ºC to +80ºC/-40ºF to +176ºF temperature range

Non-conducting polyamide case

Compact case - all round small profile

Power consumption is optimised based on the status of the link device

Dual redundant power input: +5VDC to +30VDC

Easy Wire Removable screw terminal block

Connectors

Screw Terminals	3.5mm pitch, #22 - #14, 0.5mm^2-2.5mm^2 pin power supply
Wire Thickness	0.150 inch, 3.81mm, 20 pins, 12+8 screw terminals, #26 - #16 AWG, 0.14mm^2-1.3mm^2

Power Supply

Power Consumption	3.3 W
Power Supply input	Unregulated +5V to +30Volts DC, reverse polarity protection
Isolation	1500VRMS Magnetic Isolation from Twisted Pair Ethernet

Environmental

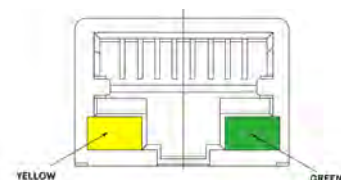|	
Operating Temperature	-40ºC to +80ºC/-40ºF to +176ºF
Storage Temperature	-40ºC to +80ºC/-40ºF to +176ºF
Ambient Relative Humidity	5 to 95% (non-condensing)

SFP/Power LED:

Power on: Green
SFP plugged in: Amber
SFP activity: Amber Flashing
SFP Error/Incompatible: Green/Amber Flashing

Magjack LEDs:

Link/Activity
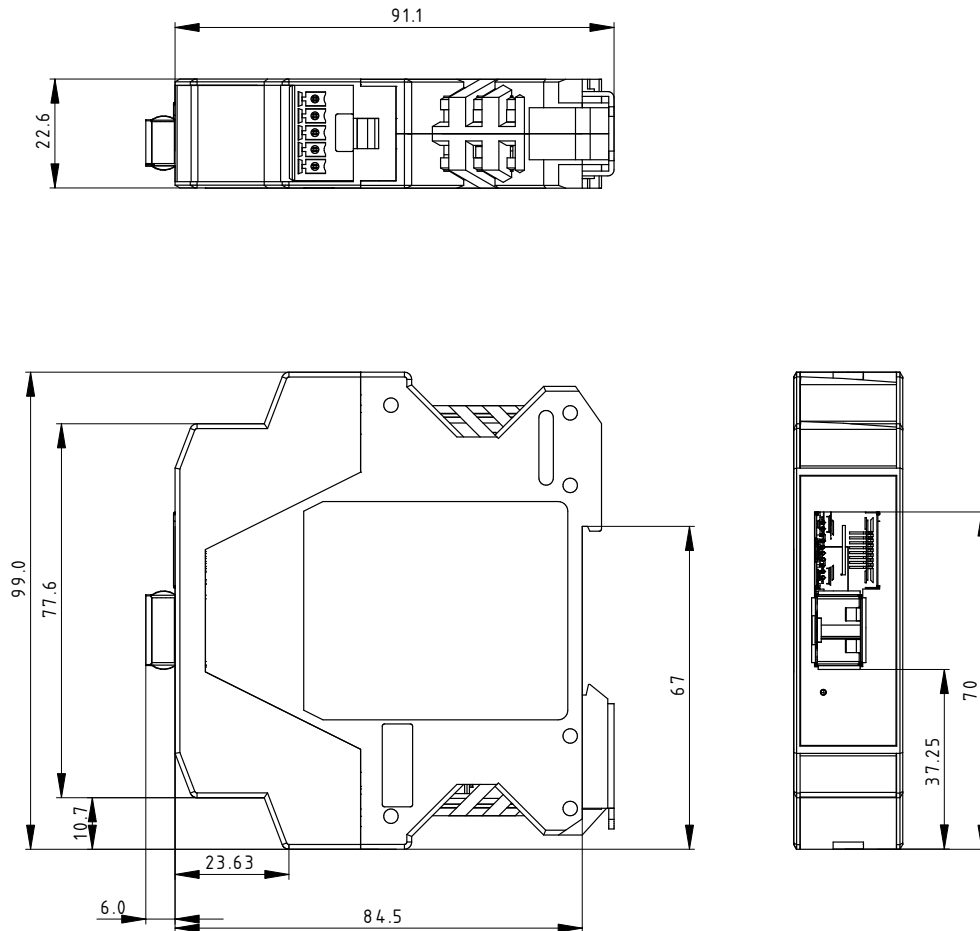Solid: Connection established
Flashing: Data communication

Speed
Yellow: 1000Mbps
Green: 100Mbps

YELLOW   GREEN

Ethernet	1 x RJ45 jack, 10/100/1000Mbs autosensing, crossover auto sensing (Auto MDIX), 1 x SFP 1000BASE-X Port
Protection	1,500 Volts magnetic isolation between ports
Housing	IP-20 rated non-conducting polyamide case

SW-581   **INDUSTRIAL GIGABIT SFP MEDIA CONVERTER**

Power Terminal Pin Outs

PIN	FUNCTION
1	-V
2	+VA
3	+VB
4	-V
5	Functional Earth

Ethernet Ports x1 Pin Outs

PIN	FUNCTION
1	TxRxA+
2	TxRxA-
3	TxRxB+
4	TxRxC+
5	TxRxC-
6	TxRxB-
7	TxRxD+
8	TxRxD-

Lifetime Warranty and Support:
We can help with every aspect of your project, from getting you up and running to custom application.

SW-581 INDUSTRIAL GIGABIT SFP MEDIA CONVERTER

Packaging Information

Packaging	Quick Start Guide
Device	Industrial Gigabit SFP Media Converter
Packaged Weight	0.2045kg, 0.45lbs
Packaged Dims	160x135x49 mm, 6.3x5.3x1.9 inches
GTIN Universal Code	837324005042

Approvals

Industry Approvals	Microsoft Certified Gold Partner, WEEE, RoHS, AEO (C-TPAT), CE, UKCA, METL Complies with UL62368-1

Product Support

Warranty	Lifetime - online registration required
Support	Lifetime web, email and phone support from fully qualified, friendly staff who work in and alongside the Product Development Team

Additional Information

OEM option	Available for bulk buy OEM
Made In	Manufactured in Great Britain (GB) by Brainboxes
Customisable	Brainboxes operate a 'Perfect Fit Custom Design' policy for volume users. More info:sales@brainboxes.com

PW-600
Power supply with connectors for UK, USA, EU and AUS mains socket. 'Tails' are suitable for connecting to screw terminal blocks.

PW-650
Power supply with USB connector and prewired screw terminal block. Suitable for use with 5V USB ports.

SW Range
Switch products available in a range of formats and specifications.

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