

# Industrial Ethernet 5-port Switch

## SDW-541

- ⌘ Easy to install and use
  - Purpose built DIN rail casing with integral clip
  - Port auto-negotiation and polarity detection
  - Transparent to industrial Ethernet protocols
- ⌘ Designed for use in harsh industrial applications
  - Dual 10 - 57 VDC power input
  - Total galvanic isolation between each cable screen
  - IP21
- ⌘ Robust for long service life
  - 1-347,000 hours MTBF to MIL-HDBK-217F-N2
  - -25 to +70°C (-13 to +158°F) with no moving parts
  - Industrial EMC, shock and vibration testing
- ⌘ Diagnostics and legacy connectivity
  - Port mirroring function
  - Diagnostic LEDs
  - DIP switches to lock port parameters for old equipment



The SDW-541 is an unmanaged 5 port (4TX and 1FX) industrial Ethernet switch designed for easy use in heavy duty industrial applications. The unit supports 802.1Q long packets which allows all standard industrial Ethernet protocols to be used. A number of standard fibre optic connection types are supported including LC, SC and ST.

The SDW-541 is designed for use in industrial applications and so has dual power inputs for 10 to 57 VDC operation. Total galvanic isolation between each port is reinforced by the unique isolation provided between each chassis screen helping to avoid ground loop currents. The IP21 rating ensures that the unit can be installed in locations where condensed water may occur.

Only industrial grade components are used which gives the SDW-541 an MTBF of 1-347,000 hours and ensures a long service life. A wide operating temperature range of -25 to +70°C (-13 to +158°F) can be achieved with no moving parts. The SDW-541 has been tested both by Westermo and external test houses to meet many EMC, isolation, vibration and shock standards, all to the highest levels suitable for heavy industrial environments.

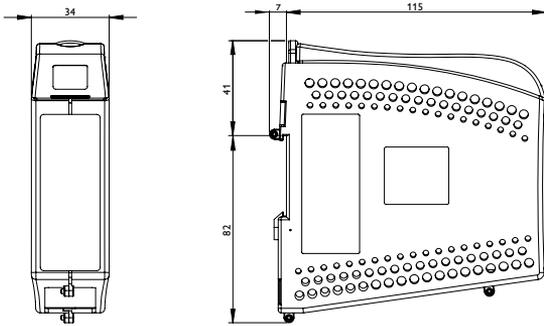
Network diagnostics are simplified with the inclusion of port mirroring on one port allowing data flow through the switch to be monitored using a network analyzer. All five ports can have data rate and flow control locked by DIP switch which can eliminate problems with old legacy Ethernet equipment that is unable to support auto negotiation.

### Ordering Information

| Art.no    | Description                                    |
|-----------|--|
| 3644-0020 | SDW-541-MM-SC2                                 |
| 3644-0022 | SDW-541-SM-LC15                                |
| 3644-0023 | SDW-541-MM-LC2                                 |
| 3644-0024 | SDW-541-SM-SC15                                |
| 3125-0150 | PS-60, Power supply, DIN mounted (Accessories) |

# Specifications SDW-541

## Dimensional drawing



Dimension W x H x D 34 x 123 x 121 mm (1.33 x 4.84 x 4.76 in)

Weight 0.2 kg

Degree of protection IP21

### Power

|                   |  |
|-------------------|--|
| Operating voltage | 9.6 - 57.6 VDC<br>12 - 48 VDC  |
| Rated current     | SDW-541-SM-LC15 450 mA @12VDC<br>SDW-541-SM-SC15 350 mA @12VDC<br>SDW-541-MM-LC2 350 mA @12VDC |

### Interfaces

|             |  |
|-------------|--|
| Ethernet TX | 4 x RJ-45, 10 Mbit/s or 100 Mbit/s     |
| Ethernet FX | 1 x LC, SC or ST connector, 100 Mbit/s |

### Temperature

|                     |                              |
|---------------------|------------------------------|
| Operating           | -25 to +70°C (-13 to +158°F) |
| Storage & Transport | -25 to +70°C (-13 to +158°F) |

### Agency approvals and standards compliance

|        |  |
|--------|--|
| EMC    | EN 61000-6-2, Immunity industrial environments           |
|        | EN 61000-6-4, Emission industrial environments           |
| Marine | DNV rules for classification - Ships and offshore units* |

\*Applicable only for 3644-0022 and 3644-0023