



**Product:** [OCTOPUS 8TX-EEC](#)

Unmanaged IP67 Switch, 8 ports, supply voltage 24 VDC, train approvals

**Product Description**

Unmanaged IP 65 / IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, Fast-Ethernet (10/100 MBit/s) ports, electrical Fast-Ethernet (10/100 MBit/s) M12-ports

**Technical Drawing**



**Technical Specifications**

**Product description**

|              |  |
|--------------|--|
| Type:        | OCTOPUS 8TX-EEC  |
| Description: | The OCTOPUS switches are suited for outdoor applications with rough environmental conditions. Because of the branch typical approvals they can be used in transport applications (E1), as well as in trains (EN 50155) and ships (GL). |
| Part Number: | 942150001  |

|                         |  |
|-------------------------|--|
| Port type and quantity: | 8 ports in total uplink ports: 10/100 BASE-TX, M12 "D"-coding, 4-pole 8 x 10/100 BASE-TX TP-cable, auto-crossing, auto-negotiation, auto-polarity. |
|-------------------------|--|

## More Interfaces

|                                 |   |
|---------------------------------|---|
| Power supply/signaling contact: | 1 x M12 5-pin connector, A coding, no signaling contact |
| USB interface:                  | 1 x M12 5-pin socket, A coding                          |

## Network size - length of cable

|                    |         |
|--------------------|---------|
| Twisted pair (TP): | 0-100 m |
|--------------------|---------|

## Network size - cascability

|                         |     |
|-------------------------|-----|
| Line - / star topology: | any |
|-------------------------|-----|

## Power requirements

|                             |                                  |
|-----------------------------|----------------------------------|
| Operating Voltage:          | 12 / 24 / 36 VDC (9,6 .. 45 VDC) |
| Power consumption:          | 4.2 W                            |
| Power output in BTU (IT)/h: | 12.3                             |
| Redundancy functions:       | redundant power supply           |

## Software

|                |   |
|----------------|---|
| Diagnostics:   | LEDs (power, link status, data)   |
| Configuration: | Switch: aging time, Qos 802.1p mapping, Qos DSCP mapping. Pro Port: port state, flow control, broadcast mode, multicast mode, jumbo frames, QoS trust mode, port-based priority, auto-negotiation, data rate, duplex mode, auto-crossing, MDI state |

## Ambient conditions

|                                      |   |
|--------------------------------------|---|
| Operating temperature:               | -40-+70 °C  |
| Note:                                | Please note that some recommended accessory parts only support a temperature range from -25 °C to +70 °C and might limit the possible operating conditions for the entire system. |
| Storage/transport temperature:       | -40-+85 °C  |
| Relative humidity (also condensing): | 5-100 %   |

## Mechanical construction

|                     |                        |
|---------------------|------------------------|
| Dimensions (WxHxD): | 60 mm x 200 mm x 31 mm |
| Weight:             | 470 g                  |
| Mounting:           | Wall mounting          |
| Protection class:   | IP65, IP67             |

## Mechanical stability

|                          |  |
|--------------------------|--|
| IEC 60068-2-6 vibration: | 1 mm, 2 Hz-13.2 Hz, 90 min. 0.7 g, 13.2 Hz-100 Hz, 90 min. 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min. 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min |
| IEC 60068-2-27 shock:    | 15 g, 11 ms duration, 18 shocks  |

## EMC interference immunity

|   |   |
|---|---|
| EN 61000-4-2 electrostatic discharge (ESD): | 6 kV contact discharge, 8 kV air discharge                      |
| EN 61000-4-3 electromagnetic field:         | 20 V/m (80-3000 MHz)  |
| EN 61000-4-4 fast transients (burst):       | 2 kV power line, 4 kV data line                                 |
| EN 61000-4-5 surge voltage:                 | power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line |
| EN 61000-4-6 Conducted Immunity:            | 3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)                     |

## EMC emitted immunity

|                    |                            |
|--------------------|----------------------------|
| EN 55032:          | EN 55032 Class A           |
| FCC CFR47 Part 15: | FCC 47CFR Part 15, Class A |

## Approvals

|   |  |
|---|--|
| Basis Standard:                         | CE, EAC, Australian Regulatory Compliance Mark (RCM) |
| Safety of industrial control equipment: | cUL61010-2-201                                       |

|   |                                  |
|---|----------------------------------|
| Safety of information technology equipment: | EN62368                          |
| Hazardous locations:                        | ISA 12.12.01 Class 1 Div. 2      |
| Railway norm:                               | EN 50155, EN 45545-2, EN 50121-4 |
| Transportation:                             | E1                               |

## Scope of delivery and accessories

|                                  |  |
|----------------------------------|--|
| Accessories to Order Separately: | ACA22-M12 (EEC) (942 125-001), M12 connector, "D"-coded (934 445-001) 2 m cordset with M12-connector, "D"-coded (934 578-001) 5 m cordset with M12-connectors, "D"-coded (934 578-002) 10 m cordset with M12-connectors, "D"-coded (934 578-003) Bulkhead M12 "D"-coded to RJ45 (934 498-001), OCTOPUS metal dust cover set (25 pieces) (942 057-001), OCTOPUS plastic dust cover set (25 pieces) (942 057-002)* |
| Scope of delivery:               | 1 × Device, 1 × Transport protection cap for supply voltage connection, 7 × Protection cap for M12 socket, 1 × M12-connector (ELWIKIA 5012 PG7) for power connection, General safety instructions  |

## Further Instructions

|                        |   |
|------------------------|---|
| Product Documentation: | <a href="https://www.doc.hirschmann.com">https://www.doc.hirschmann.com</a>                                     |
| Certificates:          | <a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a> |
| Update and Revision:   | Revision Number: 0.52 Revision Date: 06-29-2021   |

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