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## Product information Compact OpenRail Gigabit Ethernet Switch 8-24 ports - RS30-08020606SDAEHH08.0.

Industrial Ethernet: Compact configurable managed switches: with Firmware Release 8: Compact OpenRail Gigabit Ethernet Switch 8-24 ports

<http://www.e-catalog.beldensolutions.com/link/57078-24455-49854-374156-373458/en/RS30-08020606SDAEHH08.0/uistate>

| Name                                                    |  | Compact OpenRail Gigabit Ethernet Switch 8-24 ports                                                                                                                                                                                                                                                           |
|---------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |  |                                                                                                                                                                                                                              |
|                                                         |  | 10 port Gigabit/Fast-Ethernet-Switch (2 x Gigabit Ethernet, 8 x Fast Ethernet), managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design                                                                                                                                  |
| Delivery informations                                   |  |                                                                                                                                                                                                                                                                                                               |
| Availability                                            |  | available                                                                                                                                                                                                                                                                                                     |
| Product description                                     |  |                                                                                                                                                                                                                                                                                                               |
| Description                                             |  | 10 port Gigabit/Fast-Ethernet-Switch (2 x Gigabit Ethernet, 8 x Fast Ethernet), managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design                                                                                                                                  |
| Port type and quantity                                  |  | 10 Ports in total, 2 Gigabit Ethernet ports; 1. uplink: Gigabit SFP-Slot; 2. uplink: Gigabit SFP-Slot; 8 x standard 10/100 BASE TX, RJ45                                                                                                                                                                      |
| Type                                                    |  | RS30-08020606SDAEHH08.0.                                                                                                                                                                                                                                                                                      |
| Order No.                                               |  | 943 434-031                                                                                                                                                                                                                                                                                                   |
| More Interfaces                                         |  |                                                                                                                                                                                                                                                                                                               |
| Power supply/signaling contact                          |  | 1 x plug-in terminal block, 6-pin                                                                                                                                                                                                                                                                             |
| V.24 interface                                          |  | 1 x RJ11 socket                                                                                                                                                                                                                                                                                               |
| USB interface                                           |  | 1 x USB to connect the AutoConfiguration Adapter ACA21-USB                                                                                                                                                                                                                                                    |
| Network size - length of cable                          |  |                                                                                                                                                                                                                                                                                                               |
| Multimode fiber (MM) 50/125 µm                          |  | cf. SFP LWL module M-SFP-SX/LC and M-SFP-LX/LC                                                                                                                                                                                                                                                                |
| Multimode fiber (MM) 62.5/125 µm                        |  | cf. SFP LWL module M-SFP-SX/LC and M-SFP-LX/LC                                                                                                                                                                                                                                                                |
| Single mode fiber (SM) 9/125 µm                         |  | cf. SFP LWL module M-SFP-LX/LC                                                                                                                                                                                                                                                                                |
| Single mode fiber (LH) 9/125 µm (long haul transceiver) |  | cf. SFP LWL module M-SFP-LH/LC und M-SFP-LH+/LC                                                                                                                                                                                                                                                               |
| Network size - cascading                                |  |                                                                                                                                                                                                                                                                                                               |
| Line - / star topology                                  |  | any                                                                                                                                                                                                                                                                                                           |
| Ring structure (HIPER-Ring) quantity switches           |  | 50 (reconfiguration time < 0.3 sec.)                                                                                                                                                                                                                                                                          |
| Power requirements                                      |  |                                                                                                                                                                                                                                                                                                               |
| Operating voltage                                       |  | 12/24/48 V DC (9,6-60) V and 24 V AC (18-30) V (redundant)                                                                                                                                                                                                                                                    |
| Current consumption at 24 V DC                          |  | 320 mA                                                                                                                                                                                                                                                                                                        |
| Current consumption at 48 V DC                          |  | 172 mA                                                                                                                                                                                                                                                                                                        |
| Power output in Btu (IT) h                              |  | 26.3                                                                                                                                                                                                                                                                                                          |
| Software                                                |  |                                                                                                                                                                                                                                                                                                               |
| Management                                              |  | Serial interface, web interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP                                                                                                                                                                                                                              |
| Diagnostics                                             |  | LEDs, log-file, relay contact, RMON, port mirroring 1:1, topology discovery 802.1AB, address conflict detection, network error detection, SFP diagnostic [temperature, optical input and output power (µW and dBm)], Trap for configuration saving and changing, duplex mismatch detection, disable learning. |
| Configuration                                           |  | Comand line interface (CLI), TELNET, BootP, DHCP, DHCP option 82, HIDiscovery, easy device exchange with auto-configuration adapter ACA21-USB (automatic software and/or configuration upload), automatic invalid configuration undo, configuration signature (water marking)                                 |
| Security                                                |  | Port Security (IP und MAC) with multiple addresses, SNMP V3 (no encryption)                                                                                                                                                                                                                                   |
| Redundancy functions                                    |  | HIPER-ring (ring structure), MRP (IEC-ring functionality), RSTP 802.1D-2004, redundant network/ring coupling, MRP and RSTP in parallel, redundant 24 V power supply                                                                                                                                           |
| Filter                                                  |  | QoS 4 classes, port prioritisation (IEEE 802.1D/p), VLAN (IEEE 802.1Q), shared VLAN learning, multicast (IGMP Snooping/Querier), multicast detection unknown multicast, broadcastlimiter, fast aging                                                                                                          |
| Industrial Profiles                                     |  | EtherNet/IP and PROFINET (2.2 PDEV, GSDML stand-alone generator, automatic device exchange) profiles included, configuration and diagnostic via automation software tools like e.g. STEP7, or Control Logix                                                                                                   |
| Time synchronisation                                    |  | SNTP client/server, PTP / IEEE 1588                                                                                                                                                                                                                                                                           |
| Flow control                                            |  | Flow control 802.3x, port priority 802.1D/p, priority (TOS/DIFFSERV)                                                                                                                                                                                                                                          |



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|                                            |                                                                                                                                                     |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Presettings                                | Standard                                                                                                                                            |
| <b>Ambient conditions</b>                  |                                                                                                                                                     |
| Operating temperature                      | 0 °C ... 60 °C                                                                                                                                      |
| Storage/transport temperature              | -40 °C ... 70 °C                                                                                                                                    |
| Relative humidity (non-condensing)         | 10 % ... 95 %                                                                                                                                       |
| MTBF                                       | 52.7 years (MIL-HDBK-217F)                                                                                                                          |
| Protective paint on PCB                    | No                                                                                                                                                  |
| <b>Mechanical construction</b>             |                                                                                                                                                     |
| Dimensions (W x H x D)                     | 74 mm x 131 mm x 111 mm                                                                                                                             |
| Mounting                                   | DIN Rail                                                                                                                                            |
| Weight                                     | 410 g                                                                                                                                               |
| Protection class                           | IP20                                                                                                                                                |
| <b>Mechanical stability</b>                |                                                                                                                                                     |
| IEC 60068-2-27 shock                       | 15 g, 11 ms duration, 18 shocks                                                                                                                     |
| 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 |
| <b>EMC interference immunity</b>           |                                                                                                                                                     |
| EN 61000-4-2 electrostatic discharge (ESD) | 6 kV contact discharge, 8 kV air discharge                                                                                                          |
| EN 61000-4-3 electromagnetic field         | 10 V/m (80-1000 MHz)                                                                                                                                |
| EN 61000-4-4 fast transients (burst)       | 2 kV power line, 1 kV data line                                                                                                                     |
| EN 61000-4-5 surge voltage                 | power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line                                                                                     |
| EN 61000-4-6 conducted immunity            | 3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)                                                                                                         |
| <b>EMC emitted immunity</b>                |                                                                                                                                                     |
| FCC CFR47 Part 15                          | FCC 47 CFR Part 15 Class A                                                                                                                          |
| EN 55022                                   | EN 55022 Class A                                                                                                                                    |
| <b>Approvals</b>                           |                                                                                                                                                     |
| Safety of industrial control equipment     | cUL 508                                                                                                                                             |
| Hazardous locations                        | ISA 12.12.01 Class 1 Div. 2                                                                                                                         |
| Shipbuilding                               | n/a                                                                                                                                                 |
| Railway norm                               | n/a                                                                                                                                                 |
| Substation                                 | n/a                                                                                                                                                 |
| <b>Scope of delivery and accessories</b>   |                                                                                                                                                     |
| Scope of delivery                          | Device, terminal block, operating manual                                                                                                            |

For more information please contact:

**Hirschmann Automation and Control GmbH**

Stuttgarter Strasse 45-51

72654 Neckartenzlingen

Germany

Phone: +49 7127/14-1809

E-Mail: [inet-sales@belden.com](mailto:inet-sales@belden.com)

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