



# HIRSCHMANN

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## Product information Greyhound Module - GRM20-ZZZZZZZSV9HHS

Industrial Ethernet: Ruggedized Switches: GREYHOUND Gigabit Ethernet Switch and Media Modules: Greyhound Module

<http://www.e-catalog.beldensolutions.com/link/57078-24455-49846-433327-433609/en/GRM20-ZZZZZZZSV9HHS/uistate>

| Name                                                    | Greyhound Module                                                                                                                                    |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                         |                                                                    |
|                                                         | Fast Ethernet media module                                                                                                                          |
| <b>Delivery informations</b>                            |                                                                                                                                                     |
| Availability                                            | available                                                                                                                                           |
| <b>Product description</b>                              |                                                                                                                                                     |
| Type                                                    | GRM20-ZZZZZZZSV9HHS                                                                                                                                 |
| Order No.                                               | GRM20-ZZZZZZZSV9HHS                                                                                                                                 |
| Description                                             | Fast Ethernet media module                                                                                                                          |
| Port type base unit                                     | 8 x ports in total; 8 x FE SFP slot;                                                                                                                |
| <b>Network size - length of cable</b>                   |                                                                                                                                                     |
| Multimode fiber (MM) 50/125 µm                          | see SFP modules                                                                                                                                     |
| Multimode fiber (MM) 62.5/125 µm                        | see SFP modules                                                                                                                                     |
| Single mode fiber (SM) 9/125 µm                         | see SFP modules                                                                                                                                     |
| Single mode fiber (LH) 9/125 µm (long haul transceiver) | see SFP modules                                                                                                                                     |
| <b>Power requirements</b>                               |                                                                                                                                                     |
| Operating voltage                                       | power supply via GREYHOUND switch                                                                                                                   |
| Power consumption                                       | 2.0                                                                                                                                                 |
| <b>Ambient conditions</b>                               |                                                                                                                                                     |
| Operating temperature                                   | 0 °C ... 60 °C                                                                                                                                      |
| Storage/transport temperature                           | -40 °C ... 70 °C                                                                                                                                    |
| Relative humidity (non-condensing)                      | 5 % ... 95 %                                                                                                                                        |
| <b>Mechanical construction</b>                          |                                                                                                                                                     |
| Weight                                                  | 450g - 650g depending on variant                                                                                                                    |
| Protection class                                        | IP30                                                                                                                                                |
| <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)              | 8 kV contact discharge, 15 kV air discharge                                                                                                         |
| EN 61000-4-3 electromagnetic field                      | 35 V/m (80-2700 MHz); 1 kHz, 80% AM                                                                                                                 |
| EN 61000-4-4 fast transients (burst)                    | 4 kV power line, 4 kV data line                                                                                                                     |
| EN 61000-4-5 surge voltage                              | power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line, IEEE1613: power line 5 kV (line/earth)                                             |
| EN 61000-4-6 conducted immunity                         | 3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)                                                                                                         |
| EN 61000-4-16 mains frequency voltage                   | 30 V, 50 Hz continuous; 300 V, 50 Hz 1 s                                                                                                            |
| <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                  | EN61131, EN60950                                                                                                                                    |
| Substation                                              | IEC61850, IEEE1613                                                                                                                                  |
| <b>Scope of delivery and accessories</b>                |                                                                                                                                                     |
| Scope of delivery                                       | Device                                                                                                                                              |



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