

# Ha-VIS eCon 2050BT-A



Image is for illustration purposes only. Please refer to product description.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 24 02 005 0000                                                                |
| Specification      | Ha-VIS eCon 2050BT-A                                                          |
| HARTING eCatalogue | <a href="https://harting.com/24020050000">https://harting.com/24020050000</a> |

## Identification

|                  |                              |
|------------------|------------------------------|
| Series           | Ha-VIS eCon 2000             |
| Element          | Industrial Ethernet Switches |
| Specification    | Unmanaged                    |
| Type of Ethernet | Fast Ethernet                |

## Version

|                            |                                                                   |
|----------------------------|-------------------------------------------------------------------|
| Total number of ports      | 5                                                                 |
| Fixing                     | 35 mm DIN rail acc. to EN 60715                                   |
| Switching technology       | Store and Forward                                                 |
| Frame size                 | 1.522 kB                                                          |
| MAC table size             | 1k Entries                                                        |
| Packet buffer size         | 0.44 Megabit                                                      |
| Non blocking               | Yes                                                               |
| Quality of service         | Yes                                                               |
| Energie Efficient Ethernet | Yes                                                               |
| Flow control               | Off                                                               |
| Signal contact             | No                                                                |
| PoE functionality          | No                                                                |
| Pack contents              | Pluggable screw contact for power supply<br>Assembly instructions |

## Termination data

|                 |                    |
|-----------------|--------------------|
| Nominal voltage | 24 V DC<br>48 V DC |
|-----------------|--------------------|



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## Termination data

|                               |                                      |
|-------------------------------|--------------------------------------|
| Permissible voltage           | 9 ... 60 V DC                        |
| Surge protection              | Yes                                  |
| Operating current             | <42 mA @ 24 V DC<br><23 mA @ 48 V DC |
| Supply circuit                | SELV (Circuit Breaker 10 A)          |
| Starting current              | <2.8 A @ 24 V DC<br><5.6 A @ 48 V DC |
| Overcurrent protection        | 2 A at input                         |
| Power consumption             | <1.01 W @ 24 V DC                    |
| Termination method            | Pluggable screw contact              |
| Number of contacts            | 3                                    |
| Conductor cross-section       | 0.08 ... 2.5 mm <sup>2</sup>         |
| Conductor cross-section (AWG) | AWG 28 ... AWG 12                    |
| Pinout                        | + / - / FE                           |
| Reverse polarity protection   | Yes                                  |

## Technical characteristics

|                                        |                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------|
| Operating temperature                  | -40 ... +70 °C                                                                             |
| Storage temperature                    | -40 ... +85 °C                                                                             |
| Relative humidity                      | 0.1 ... 95 % Non-condensing (operation)<br>0.1 ... 95 % Non-condensing (storage/transport) |
| Air pressure                           | ≥795 hPa ≈ 2000 m                                                                          |
| Degree of protection acc. to IEC 60529 | IP30 mated condition                                                                       |
| MTBF                                   | ≈2,860,000 h                                                                               |

## Ethernet ports copper

|                            |                             |
|----------------------------|-----------------------------|
| 10/100 Mbit/s (RJ45-Ports) | 5                           |
| Transmission standard      | 10BASE-Te<br>100BASE-TX EEE |
| Auto-negotiation           | Yes                         |
| Auto-polarity              | Yes                         |
| Auto-MDI(X)                | Yes                         |
| Transmission physics       | Twisted Pair Cat. 5         |
| Data rate                  | 10 Mbit/s<br>100 Mbit/s     |



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## Ethernet ports copper

Transmission length 100 m

## Material properties

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| Material (hood/housing)              | Aluminium (anodised)                                   |
| Length                               | 27.3 mm                                                |
| Width                                | 46.5 mm                                                |
| Height                               | 113.5 mm                                               |
| RoHS                                 | compliant with exemption                               |
| RoHS exemptions                      | 6(c): Copper alloy containing up to 4 % lead by weight |
| ELV status                           | compliant with exemption                               |
| China RoHS                           | 50                                                     |
| REACH Annex XVII substances          | Not contained                                          |
| REACH ANNEX XIV substances           | Not contained                                          |
| REACH SVHC substances                | Yes                                                    |
| REACH SVHC substances                | Lead                                                   |
| ECHA SCIP number                     | 0d7d3693-d625-47ab-934a-d241bf72c86e                   |
| California Proposition 65 substances | Yes                                                    |
| California Proposition 65 substances | Lead                                                   |

## Specifications and approvals

|                |                                                                                                                                                                                                                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specifications | EN 55022 Radio disturbance characteristics<br>EN 61000-4-2 Electrostatic discharge (ESD)<br>EN 61000-4-3 Electromagnetic field<br>EN 61000-4-4 Rapid transients (burst)<br>EN 61000-4-5 Surge voltages<br>EN 61000-4-6 conducted disturbances<br>EN 61000-6-4 emission standard<br>IEC 60068-2-6 Vibration (sinusoidal) |
| UL / CSA       | UL 508 NRAQ.E253944<br>CSA-C22.2 No. 142 NRAQ7.E253944                                                                                                                                                                                                                                                                  |
| Approvals      | CE<br>DNV GL                                                                                                                                                                                                                                                                                                            |
| FCC            | Yes                                                                                                                                                                                                                                                                                                                     |

## Commercial data

|                |       |
|----------------|-------|
| Packaging size | 1     |
| Net weight     | 170 g |



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Commercial data

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Country of origin              | Germany                                       |
| European customs tariff number | 85176200                                      |
| GTIN                           | 5713140147171                                 |
| eCl@ss                         | 19170130 Network switch (general application) |
| ETIM                           | EC000734                                      |
| UNSPSC 24.0                    | 43222612                                      |