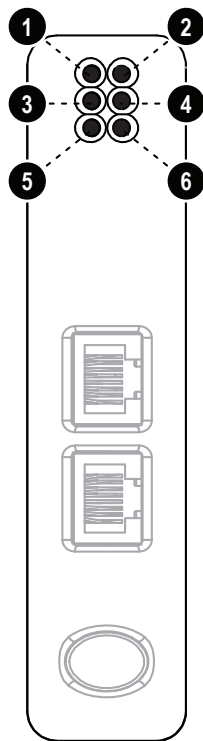


Module Front



LED Indicators

| LED | | Indication | Meaning |
|-----|-----------------|-----------------------|---|
| 1 | RUN | Green | Device in OPERATIONAL state |
| | | Green (blinking) | Device in PRE-OPERATIONAL state |
| | | Green (1 flash) | Device in SAFE-OPERATIONAL state |
| | | Off | Device in INIT state |
| 2 | ERR | Red | Application watchdog timeout |
| | | Red (blinking) | General configuration error |
| | | Red (1 flash) | Unsolicited state change |
| | | Red (2 flashes) | Sync manager watchdog timeout |
| | | Off | Normal operation (no errors) |
| 3 | Link/Activity 1 | Green | Link established on Ethernet port 1 |
| | | Green (flickering) | Exchanging packets on Ethernet port 1 |
| | | Off | Link not detected or no power |
| 4 | Link/Activity 2 | Green | Link established on Ethernet port 2 |
| | | Green (flickering) | Exchanging packets on Ethernet port 2 |
| | | Off | Link not detected or no power |
| 5 | Subnet status | Green | Running |
| | | Green (flashing) | Running, one or more transaction errors |
| | | Red | Transaction error/timeout or subnet stopped |
| 6 | Device status | Green | Initializing |
| | | Green (flashing) | Running |
| | | Red | Bootloader mode |
| | | Red (flashing) | Contact Anybus support |
| | | Alternating red/green | Configuration invalid or missing |
| | | Off | Power off |

Accessories Checklist

The following items are required for installation:

- Anybus Communicator Resource CD (Includes configuration software, manuals and application notes)
- RS232 configuration cable
- Subnetwork connector
- Ethernet cable and connector (not included)

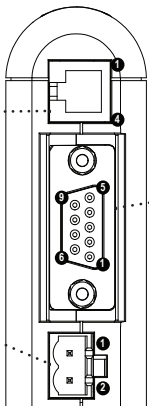
Installation and Startup Summary

- Mount the Communicator on the DIN-rail.
- Connect the Communicator to the EtherCAT network.
- Connect the Communicator to the subnetwork.
- Power on the Communicator (+24 V DC).
- Connect the configuration cable between the Communicator and the PC containing the Anybus Configuration Manager software (ACM).
- Configure the Communicator using ACM.
- Configure and start the EtherCAT network.

Bottom View

PC Connector:

- 1. GND
- 2. GND
- 3. RS232 Rx
- 4. RS232 Tx



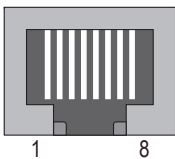
Power:

- 1. +24 V DC
- 2. GND

Subnetwork Connector

| Pin no. | Description |
|---------|--------------------|
| 1 | +5V OUT |
| 2 | RS232 Rx |
| 3 | RS232 Tx |
| 4 | NC |
| 5 | Signal GND |
| 6 | RS422 Rx+ |
| 7 | RS422 Rx- |
| 8 | RS485+ / RS422 Tx+ |
| 9 | RS485- / RS422 Tx- |

EtherCAT Connector



| Pin no | Description |
|------------|-------------|
| 1 | TD+ |
| 2 | TD- |
| 3 | RD+ |
| 6 | RD- |
| 4, 5, 7, 8 | Termination |



EtherCAT® is a registered trademark and patented technology licensed by Beckhoff Automation GmbH, Germany.

Further information and documents about this product can be found at the product pages on www.anybus.com.

UL Certification



IND: CONT. EQ.
FOR HAZ LOC.
CL I, DIV 2
GP A,B,C,D
TEMP
CODE
E203225

Warnings

- **WARNING - EXPLOSION HAZARD - SUBSTITUTION OF ANY COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.**
- **WARNING - EXPLOSION HAZARD - WHEN IN HAZARDOUS LOCATIONS, TURN OFF POWER BEFORE REPLACING OR WIRING MODULES.**
- **WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NONHAZARDOUS.**

Attention!

- **ATTENTION – RISQUE D’EXPLOSION – LE REMPLACEMENT DE TOUT COMPOSANTS INVALIDE LA CERTIFICATION CLASS I, DIVISION 2.**
- **ATTENTION – RISQUE D’EXPLOSION – EN ZONE EXPLOSIVE, VEUILLEZ COUPER L’ALIMENTATION ÉLECTRIQUE AVANT LE REMPLACEMENT OU LE RACCORDEMENT DES MODULES.**
- **ATTENTION – RISQUE D’EXPLOSION – NE PAS DÉCONNECTER L’ÉQUIPEMENT TANT QUE L’ALIMENTATION EST TOUJOURS PRÉSENTE OU QUE LE PRODUIT EST TOUJOURS EN ZONE EXPLOSIVE ACTIVE.**

Additional installation and operating instructions

Max Ambient Temperature: 55°C (for Hazloc environments)

Field wiring terminal markings (wire type (Cu only, 14-30 AWG)).

Use 60/75 or 75°C copper (Cu) wire only.

Terminal tightening torque must be between 5-7 lb-in (0.5 - 0.8 Nm).

Use in overvoltage category 1 pollution degree 2 environment.

Installed in an enclosure considered representative of the intended use.

Secondary circuit intended to be supplied from an isolating source and protected by overcurrent protective devices installed in the field sized per the following:

| Control-circuit Wire Size | | Maximum Protective Device Rating |
|---------------------------|--------------------|----------------------------------|
| AWG | (mm ²) | Amperes |
| 22 | (0.32) | 3 |
| 20 | (0.52) | 5 |
| 18 | (0.82) | 7 |
| 16 | (1.3) | 10 |
| 14 | (2.1) | 20 |
| 12 | (3.3) | 25 |

EMC Compliance (CE)



This product is in accordance with the EMC directive 89/336/EEC, with amendments 92/31/EEC and 93/68/EEC through conformance with the following standards:

- **EN 50082-2 (1993)**
EN 55011 (1990) Class A
- **EN 61000-6-2 (1999)**
EN 61000-4-3 (1996) 10 V/m
EN 61000-4-6 (1996) 10 V/m (all ports)
EN 61000-4-2 (1995) ±8 kV Air Discharge
±4 kV Contact discharge
EN 61000-4-4 (1995) ±2 kV Power port
±1 kV Other ports
EN 61000-4-5 (1995) ±0.5 kV Power ports (DM/CM)
±1 kV Signal ports

Further information and documents about this product can be found at the product pages on www.anybus.com.