

Electrical multi-pole connection

Art. No. 150955

Type No. 02282E025



Exemplary illustration

The "Electrical Connection – E" subsystem powers EB 80 systems, transmits control signals to solenoid valves, manages I/O communication, and handles diagnostics. Available in multi-pole or fieldbus versions, the valve island operates identically with both (patented), supporting parallel and serial controls.

Smart electronics across all modules enable advanced diagnostics. The system supports 12 VDC and 24 VDC operation (patented), tolerates overvoltages up to 31.2 VDC, and functions with a minimum pilot voltage of 10.8 VDC.

Multi-pole versions retain full modularity and diagnostics and feature a single-piece metal housing. Fieldbus versions consist of a metal lower body, independent of protocol, and a technopolymer upper section tailored to specific bus protocols (except the IO-Link 64 OUT module, which comes with one-piece metal housing).

Technical data

| | |
|---|---|
| Module type | E |
| Module description | multi-pole electrical connection |
| Version | 25-pin |
| Supply voltage range | 12 -10 % to 24 +30 % V DC |
| Operating voltage min. | 10.8 V DC |
| Operating voltage max. | 31.2 V DC |
| Max. admissible voltage | 32 V DC* |
| Duty cycle | 100 % |
| Switching polarity | configurable PNP or NPN |
| Power supply without controlled valves | 0.1 W for module "electr. conn.-E" + 0.25 W per "Base-B" |
| Solenoid pilot power on start-up (speed up) | 3 W for 15 ms |
| Solenoid pilot power after start-up (holding) | 0,3 W |
| Power input | max. 3.15 W |
| Max. admissible current, continuous | 6 A |
| Max. admissible current, instantaneous | 9 A |
| Protection | system: overload, output: short-circuit |
| Diagnostics | FAULT (red) and OUT on "electr. connection-E", LED on valve |
| Diagnostic signals | short circuit, no control signal, invalid operating voltage |

Technical data

| | |
|---|---|
| Maximum number of solenoid controls | 21 |
| Maximum number of controllable solenoid valves | 21, depending on number of solenoid pilots and type of base |
| Max. number of simultaneous solenoid controls on activation | 24 V DC: 21 / 12 V DC: depending on voltage drop |
| Maximum current at 24 V DC | 3 A |
| Maximum current at 12 V DC | 6 A |
| Min. ambient temperature | -10 °C |
| Max. ambient temperature | 50 °C |
| Housing | painted aluminum |
| Sealant | NBR |
| Protection IP | IP 65 |
| Series | EB 80 |

*IMPORTANT! Voltage greater than 32 V DC will damage the system irreparably.

Commercial data

| | |
|-------------------------|------------------|
| eCl@ss 5.1.4 | 27291501 |
| eCl@ss 9.0 | 27291390 |
| UNSPSC_Code_v190501 | 40141603 |
| UNSPSC_CodeDesc_v190501 | Pneumatic valves |

EB 80 ELECTRICAL CONNECTION - E



The job of the "Electrical Connection - E" subsystem is to power the EB 80 systems, transmit control signals for the solenoid valves, send and receive signals for the input/output management modules and control diagnostics. Versions with a multi-pole connector or fieldbus are also available. It is worth noting that the island of solenoid valves functions equally with both systems. This means that all the valves, bases and intermediate elements can work both with parallel and serial controls (patented). Smart electronics of all electrical connection modules, including multi-pole ones, can be used to control unexpected functions, including very interesting diagnostics. The system can be supplied with a very wide voltage range, so much so that the EB 80 island can be controlled either at 12VDC or 24VDC (patented). Overvoltages up to 30% of the rated value, i.e. up to 31.2VDC, are admitted. The minimum voltage for solenoid pilots can be 10.8VDC, i.e. 12VDC-10%. The body of the multi-pole version is made of metal in one piece (as the IO-Link 64 OUT version); simplified versions that can only manage solenoid valves, but that keeps the whole modularity and diagnostics of the EB 80 family. Versions with a fieldbus instead consist of two parts: a lower part, with a single metal body separate from the bus protocol; an upper part with a technopolymer body dedicated to each specific bus protocol.


VALVES
EB 80 - ELECTRICAL CONNECTION - E

| TECHNICAL DATA | | | | | | | |
|---|----------|--|------------------|----------|------------------------|----------------|-------------------|
| Supply voltage range | VDC | 12 -10% 24 +30% | | | | | |
| Minimum operating voltage | VDC | 10.8 * | | | | | |
| Maximum operating voltage | VDC | 31.2 | | | | | |
| Maximum admissible voltage | VDC | 32 *** | | | | | |
| Drive (for multi-pole) | | PNP or NPN | | | | | |
| Solenoid rating | | 100% ED | | | | | |
| Power supply without controlled valves: | | | | | | | |
| steady rate, with multi-pole connection | W | 0.1 for "Electrical connection - E" + 0.25 for each "Base - B" | | | | | |
| steady rate, with fieldbus connection | W | 4 for "Electrical connection - E" + 0.25 for each "Base - B" | | | | | |
| Signal module supply power | | See chapter "Signal module - S" | | | | | |
| Maximum operating power supply (data useful for the sizing of the power supply unit) | W | 3.15 for each solenoid pilot operated simultaneously + input and output | | | | | |
| Maximum current admissible | | | | | | | |
| with multi-pole connection | A | 6 continuous, 9 instantaneous | | | | | |
| with fieldbus connection | A | 4 continuous, 6 instantaneous for valve supply 4 continuous, 6 instantaneous for bus and signal supply | | | | | |
| Protection | | Overload and short-circuit protected solenoid pilot Output | | | | | |
| Diagnostics | | LED signal on valve, LED light on electrical connection. With multi-pole: fault signal OUT activation. With field bus: software message. | | | | | |
| Faults signalled | | Short-circuited solenoid pilot; Solenoid pilot broken or missing Power supply out of range (under-voltage or over-voltage) With fieldbus only, different configuration, on switching on, compared to that stored; communication control between modules | | | | | |
| Ambient temperature | °C °F | -10 to + 50 14 to 122 | | | | | |
| Versions | | Plug connectors, fieldbus with various protocols, additional island | | | | | |
| Maximum number of controllable solenoid pilots | | 25-pin connector | 44-pin connector | Fieldbus | IO-link 32 IN / 32 OUT | IO-link 64 OUT | additional island |
| | | 21 | 38 | 128 | 32 | 64 | 128 |
| Maximum number of controllable solenoid valves | | Ditto as above, depending on the number of solenoid pilots and type of base | | | | | |
| Degree of protection | | IP65 (with connectors connected or plugged if not used) | | | | | |
| Weight | g | 180 | 180 | 350 | 350 | 180 | 320 |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28
 *** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

EB 80 MULTI-POLE ELECTRICAL CONNECTION - E

The job of the multi-pole version of the electrical connection subsystem is to power the EB solenoid valve islands. The system accepts to be supplied with a very wide range of voltages, to such an extent that the EB 80 island alone can be controlled at either 12VDC or 24VDC (patented).
 Overvoltages up to 30% of the rated value, i.e. up to 31.2VDC, are admitted. The minimum voltage for the solenoid pilots can be 10.8VDC, i.e. 12VDC - 10%. The body of the multi-pole version is made of metal in a single piece.



VALVES

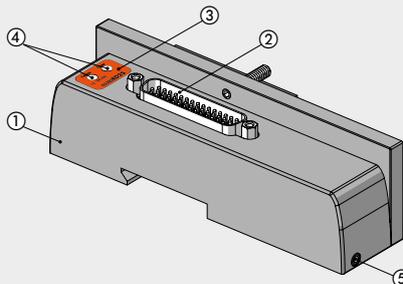
EB 80 - MULTI-POLE ELECTRICAL CONNECTION - E

| TECHNICAL DATA | | | |
|--|-----|---|------------------|
| Supply voltage range | VDC | 12 -10% | 24 +30% |
| Minimum operating voltage | VDC | 10.8 * | |
| Maximum operating voltage | VDC | 31.2 | |
| Maximum admissible voltage | VDC | 32 *** | |
| Drive | | Configurable PNP or NPN | |
| Power supply without controlled valves | W | 0.1 for "Electrical connection - E" + 0.25 for each "Base - B" | |
| Solenoid pilot power on start-up (Speed Up) | W | 3 for 15 msec | |
| Solenoid pilot power after start-up (holding) | W | 0.3 | |
| Maximum admissible current | A | 6 continuous, 9 instantaneous | |
| Protection | | System protected against overload short-circuit protected solenoid pilot Output | |
| Diagnostics | | FAULT signal red light and Out signal on "Electrical connection - E" LED light signal on valve | |
| Faults signalled | | Short-circuited solenoid pilot; Solenoid pilot broken or missing Power supply out of range (under-voltage or over-voltage) | |
| Ambient temperature | °C | -10 to + 50 | |
| | °F | 14 to 122 | |
| Electrical connection | | Plug connectors | |
| | | 25-pin connector | 44-pin connector |
| Maximum number of controllable solenoid pilots ** | | 21 | 38 |
| Maximum number of controllable solenoid valves | | Ditto as above, depending on the number of solenoid pilots and type of base | |
| Maximum number of simultaneously controllable solenoid pilots: | | | |
| at 24VDC | | 21 | 38 |
| at 12VDC | | Depending on the voltage drop – see page B2.28 | |
| Maximum current at 24VDC | A | 3 | 5 |
| Maximum current at 12VDC | A | 6 | 9 |
| Degree of protection | | IP65 (with connectors connected or plugged if not used) | |
| Weight | g | 180 | 180 |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28
 ** If the units are made up of bases exceeding the maximum number of controllable solenoid pilots (by mounting a dummy valve N or a bypass Y in the excess positions), operation is only possible on the islands with a positive signal (PNP), conversely (with an NPN signal), an error message is generated by the diagnostic system.
 *** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

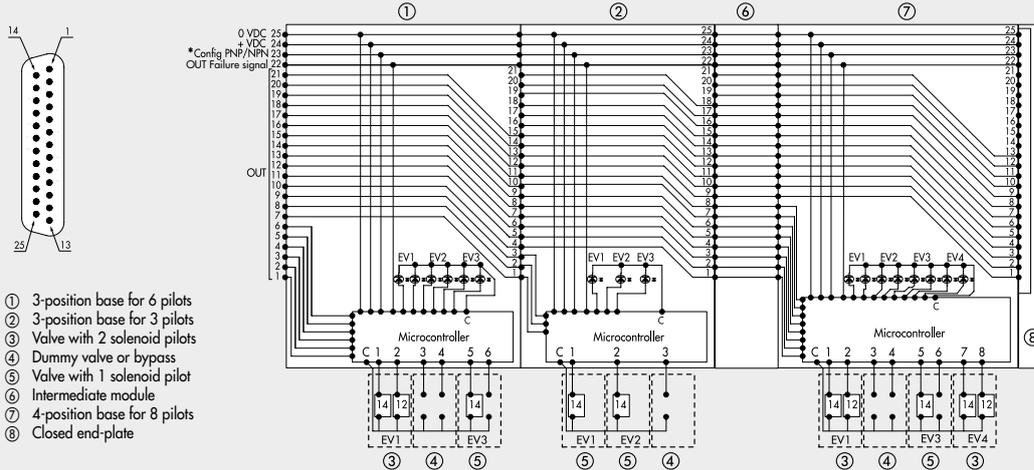
COMPONENTS

- ① BODY: painted metal
- ② CONNECTOR: plug type
- ③ NAMEPLATE: with product code
- ④ LED: signal on and alarm
- ⑤ GRUB SCREW securing the DIN bar or bracket: zinc-plated steel

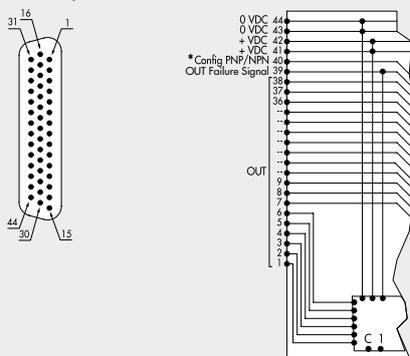


WIRING DIAGRAM

D-Sub 25-pin CONNECTOR



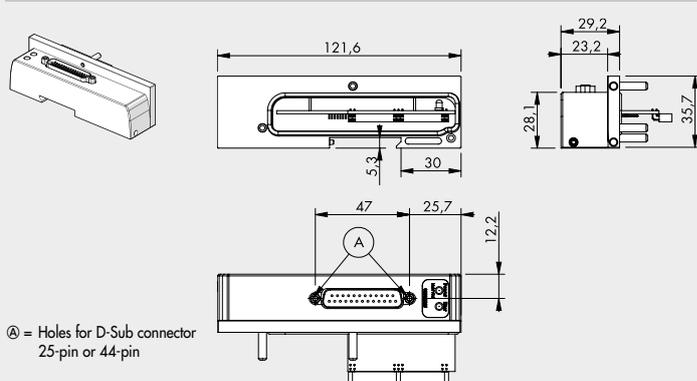
D-Sub 44-pin CONNECTOR



* Connect to +VDC if (Out) valves with a POSITIVE signal are to be controlled
 Connect to 0VDC if (Out) valves with a NEGATIVE signal are to be controlled

DIMENSIONS - ORDERING CODES

DIMENSION OF A MULTI-POLE ELECTRICAL CONNECTION



Ⓐ = Holes for D-Sub connector
 25-pin or 44-pin

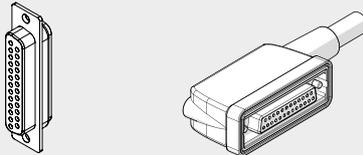
| Code | Description | Weight [g] |
|-----------|------------------------------------|------------|
| 02282E025 | EB 80 25-pin electrical connection | 260 |
| 02282E044 | EB 80 44-pin electrical connection | 260 |

VALVES

EB 80 - MULTI-POLE ELECTRICAL CONNECTION - E

ACCESSORIES

IP65 25-PIN PRE-WIRED PLUG CONNECTOR



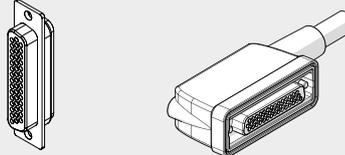
| Code | Description | Weight [g] |
|---------------|---|------------|
| 02269A0100 | IP65 25-pin 90° connector, UL cable L = 1 m | 180 |
| 02269A0250 | IP65 25-pin 90° connector, UL cable L = 2.5 m | 365 |
| 02269A0500 | IP65 25-pin 90° connector, UL cable L = 5 m | 680 |
| 02269A1000 | IP65 25-pin 90° connector, UL cable L = 10 m | 1220 |
| 02269A2000 | IP65 25-pin 90° connector, UL cable L = 20 m | 2350 |
| 02269C0100 ** | IP65 25-pin 90° connector, UL H-FLEX CL6, cable L = 1 m | 180 |
| 02269C0250 ** | IP65 25-pin 90° connector, UL H-FLEX CL6, cable L = 2.5 m | 365 |
| 02269C0500 ** | IP65 25-pin 90° connector, UL H-FLEX CL6, cable L = 5 m | 680 |
| 02269C1000 ** | IP65 25-pin 90° connector, UL H-FLEX CL6, cable L = 10 m | 1220 |

** Very flexible cables, class 6 according to IEC 60228

| Position of electrical contact | Colour of the corresponding wire | Function |
|--------------------------------|----------------------------------|-------------------|
| 1 | White | Out 1 |
| 2 | Brown | Out 2 |
| 3 | Green | Out 3 |
| 4 | Yellow | Out 4 |
| 5 | Grey | Out 5 |
| 6 | Pink | Out 6 |
| 7 | Blue | Out 7 |
| 8 | Red | Out 8 |
| 9 | Black | Out 9 |
| 10 | Violet | Out 10 |
| 11 | Grey + Pink ring | Out 11 |
| 12 | Red + Blue ring | Out 12 |
| 13 | White + Green ring | Out 13 |
| 14 | Brown + Green ring | Out 14 |
| 15 | White + Yellow ring | Out 15 |
| 16 | Yellow + Brown ring | Out 16 |
| 17 | White + Grey ring | Out 17 |
| 18 | Grey + Brown ring | Out 18 |
| 19 | White + Pink ring | Out 19 |
| 20 | Pink + Brown ring | Out 20 |
| 21 | White + Blue ring | Out 21 |
| 22 | Brown + Blue ring | Fault reporting |
| 23 | White + Red ring | Config. PNP/NPN * |
| 24 | Brown + Red ring | +VDC |
| 25 | White + Black ring | 0VDC |

* Connect to +VDC if (Out) valves with a POSITIVE signal are to be controlled
 Connect to 0VDC if (Out) valves with a NEGATIVE signal are to be controlled

IP65 44-PIN PRE-WIRED PLUG CONNECTOR



| Code | Description | Weight [g] |
|---------------|---|------------|
| 02269B0100 | IP65 44-pin 90° connector, UL cable L = 1 m | 275 |
| 02269B0250 | IP65 44-pin 90° connector, UL cable L = 2.5 m | 630 |
| 02269B0500 | IP65 44-pin 90° connector, UL cable L = 5 m | 1180 |
| 02269B1000 | IP65 44-pin 90° connector, UL cable L = 10 m | 2210 |
| 02269B2000 | IP65 44-pin 90° connector, UL cable L = 20 m | 4340 |
| 02269D0100 ** | IP65 44-pin 90° connector, UL H-FLEX CL6, cable L = 1 m | 275 |
| 02269D0250 ** | IP65 44-pin 90° connector, UL H-FLEX CL6, cable L = 2.5 m | 630 |
| 02269D0500 ** | IP65 44-pin 90° connector, UL H-FLEX CL6, cable L = 5 m | 1180 |
| 02269D1000 ** | IP65 44-pin 90° connector, UL H-FLEX CL6, cable L = 10 m | 2210 |

** Very flexible cables, class 6 according to IEC 60228

| Position of electrical contact | Colour of the corresponding wire | Function |
|--------------------------------|----------------------------------|-------------------|
| 1 | White | Out 1 |
| 2 | Brown | Out 2 |
| 3 | Green | Out 3 |
| 4 | Yellow | Out 4 |
| 5 | Grey | Out 5 |
| 6 | Pink | Out 6 |
| 7 | Blue | Out 7 |
| 8 | Red | Out 8 |
| 9 | Black | Out 9 |
| 10 | Violet | Out 10 |
| 11 | Grey + Pink ring | Out 11 |
| 12 | Red + Blue ring | Out 12 |
| 13 | White + Green ring | Out 13 |
| 14 | Brown + Green ring | Out 14 |
| 15 | White + Yellow ring | Out 15 |
| 16 | Yellow + Brown ring | Out 16 |
| 17 | White + Grey ring | Out 17 |
| 18 | Grey + Brown ring | Out 18 |
| 19 | White + Pink ring | Out 19 |
| 20 | Pink + Brown ring | Out 20 |
| 21 | White + Blue ring | Out 21 |
| 22 | Brown + Blue ring | Out 22 |
| 23 | White + Red ring | Out 23 |
| 24 | Brown + Red ring | Out 24 |
| 25 | White + Black ring | Out 25 |
| 26 | Brown + Black ring | Out 26 |
| 27 | Grey + Green ring | Out 27 |
| 28 | Yellow + Grey ring | Out 28 |
| 29 | Pink + Green ring | Out 29 |
| 30 | Yellow + Pink ring | Out 30 |
| 31 | Green + Blue ring | Out 31 |
| 32 | Yellow + Blue ring | Out 32 |
| 33 | Green + Red ring | Out 33 |
| 34 | Yellow + Red ring | Out 34 |
| 35 | Green + Black ring | Out 35 |
| 36 | Yellow + Black ring | Out 36 |
| 37 | Grey + Blue ring | Out 37 |
| 38 | Pink + Blue ring | Out 38 |
| 39 | Grey + Red ring | Fault reporting |
| 40 | Pink + Red ring | Config. PNP/NPN * |
| 41 | Grey + Black ring | +VDC |
| 42 | Pink + Black ring | +VDC |
| 43 | Blue + Black ring | 0VDC |
| 44 | Red + Black ring | 0VDC |

* Connect to +VDC if (Out) valves with a POSITIVE signal are to be controlled
 Connect to 0VDC if (Out) valves with a NEGATIVE signal are to be controlled

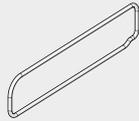
VALVES

EB 80 - MULTI-POLE ELECTRICAL CONNECTION - E

B2

SPARE PARTS

EB 80 ELECTRICAL CONNECTION INTERFACE OR SEAL



| Code | Description |
|------------|---|
| 02282R1003 | EB 80 electrical connection interface OR seal |

Comes in 10-pc. packs

NOTES

VALVES

EB 80 - MULTI-POLE ELECTRICAL CONNECTION - E

B2.32

EB 80 ELECTRICAL CONNECTION WITH FIELDBUS - E PNEUMATIC

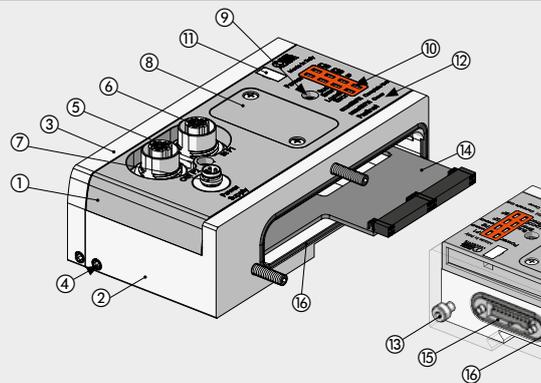
The job of the electrical connection with fieldbus is to power the EB 80 systems, transmit control signals for the solenoid valves, send or receive signals for input/output management modules and control diagnostics. The system can be supplied with a very wide voltage range, so much so that the EB 80 island can be controlled either at 12VDC or 24VDC (patented). Overvoltages up to 30% of the rated value, i.e. up to 31.2VDC, are admitted. The minimum voltage for solenoid pilots can be 10.8VDC, i.e. 12VDC - 10%. The modules come into parts: a lower part, with a single aluminium body separate from the bus protocol; an upper part with a technopolymer body dedicated to each specific bus protocol. The exception is the IO-Link 64 OUT version which is composed of a single aluminium element and can only manage solenoid valves (32 or 64) while maintaining all the modularity and diagnostic features of the EB 80 family.


VALVES
EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

| TECHNICAL DATA | |
|--|---|
| Supply voltage range | VDC 12 -10% 24 +30% |
| Minimum operating voltage | VDC 10.8 * |
| Maximum operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| Power supply without controlled valves | W 4 for "Electrical connection - E" + 0.25 for each "Base - B" |
| Solenoid pilot power on start-up (Speed Up) | W 3 for 15 msec |
| Solenoid pilot power after start-up (holding) | W 0.3 |
| Maximum admissible current | A 4 continuous, 6 instantaneous for valve supply 4 continuous, 6 instantaneous for bus and signal supply |
| Protection | Overload and short-circuit protected solenoid pilot Output |
| Diagnostics | LED signal on valve, LED on electrical connection and software message regarding: short-circuited solenoid pilot; solenoid pilot with coil failure; voltage out of range (undervoltage and overvoltage); module communication control; on switching, configuration other than that stored |
| Maximum number of solenoid pilots | 128 (32 for IO-Link 32 IN / 32 OUT; 64 for IO-Link 64 OUT) |
| Maximum number of simultaneously controllable solenoid pilots to actuate a greater number of solenoid pilots at the same time, add "Intermediate modules - M" with electrical connection | 38 |
| Maximum number of signals ** | 128 digital inputs, 128 digital outputs, 16 analogue inputs, 16 analogue outputs (32 for IO-Link 32 IN / 32 OUT) |
| Maximum number of nodes ** | 40 Bases for valves + 16 digital inputs + 16 digital outputs + 4 analogue inputs + 4 analogue outputs |
| Ambient temperature | °C -10 to + 50 °F 14 to 122 |
| Versions | EtherNet/IP, EtherCAT, CANopen, Profinet IO, Profibus-DP, Ethernet POWERLINK, IO-Link, CC-Link IE Field Basic |
| Degree of protection | IP65 (with connectors connected or plugged if not used) |
| Weight | g 350 (180 for IO-Link 64 OUT) |
| * Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28 | |
| ** For topological limits (maximum lengths, etc.) see the instructions. | |
| *** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably. | |

COMPONENTS

- ① UPPER PART BODY: technopolymer
- ② LOWER PART BODY: painted aluminium
- ③ CLOSING PLATE: painted aluminium
- ④ GRUB SCREW securing the DIN bar or bracket: zinc-plated steel
- ⑤ Fieldbus signal receive CONNECTOR
- ⑥ Fieldbus signal send CONNECTOR
- ⑦ M8 power supply CONNECTOR
- ⑧ COVER for access to bus address switches: technopolymer
- ⑨ SCREW securing the upper part to the lower part
- ⑩ LED light
- ⑪ NAMEPLATE: removable
- ⑫ IDENTIFICATION wording: laser etched
- ⑬ SCREW securing the end plate
- ⑭ CONNECTOR for solenoid valve base modules
- ⑮ CONNECTOR for input/output signal modules
- ⑯ GASKETS interfacing: NBR



EtherNet/IP WIRING DIAGRAM

VALVES

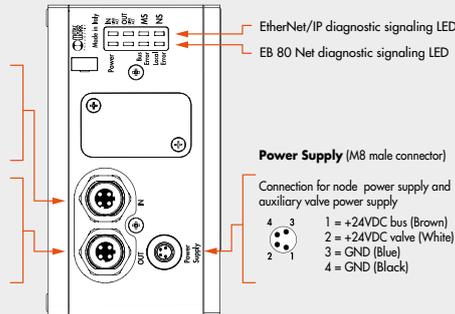
EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

Connection to the EtherNet/IP network

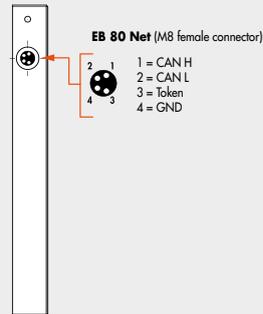
IN (M12 female connector, D encoding)



OUT (M12 female connector, D encoding)



End plate with intermediate control



| TECHNICAL DATA | |
|--|---|
| Fieldbus | 10 - 100 Mbit/S - Full-duplex - Half-duplex - Supports auto-negotiation and Quick Connect |
| Factory settings | IP address: 192.168.192.32 |
| Addressing | Software - DHCP hardware |
| Supply voltage range | VDC 12 -10% 24 +30% |
| Minimum operating voltage | VDC 10.8 * |
| Maximum operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| Protection | Module protected from overload and polarity inversion. Outputs protected from overloads and short-circuits. |
| Connections | Fieldbus: 2 M12 F, D encoding, internal switch. Power supply: M8, 4-pin |
| Diagnostics ** | EtherNet/IP: via local LED lights and software messages. Outputs: via local LED lights and state bytes |
| Bus power supply current absorption | nominal Icc 180 mA at 24VDC |
| Maximum number of pilots | 128 |
| Maximum number of digital inputs | 128 |
| Maximum number of digital outputs | 128 |
| Maximum number of analogue inputs | 16 |
| Maximum number of analogue outputs | 16 |
| Maximum number of inputs for temperatures | 16 |
| Data bit value | 0 = non-active; 1 = active |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28
 ** Refer to the user manual for a detailed description.
 *** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

EtherCAT WIRING DIAGRAM

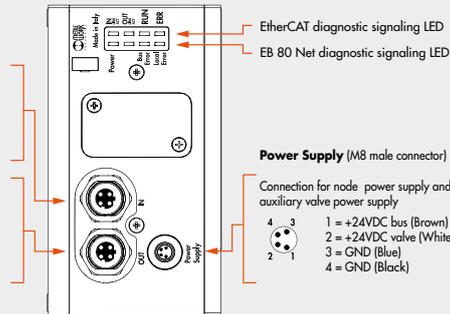
Connection to the EtherCAT network

IN (M12 female connector, D encoding)

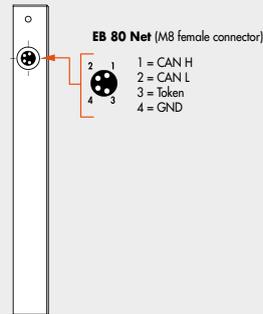
- 1 = TD+
- 2 = RD+
- 3 = TD-
- 4 = RD-
- Metal ring nut = Shield

OUT (M12 female connector, D encoding)

- 1 = TD+
- 2 = RD+
- 3 = TD-
- 4 = RD-
- Metal ring nut = Shield



End plate with intermediate control



VALVES

EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

| TECHNICAL DATA | |
|--|---|
| Fieldbus | 100 Mbit/S - Full-duplex - Supports auto-negotiation |
| Factory settings | module denomination: EB80series |
| Addressing | Automatic from the master depending on its topological position. Fixes with the second slave address function |
| Supply voltage range | VDC 12 -10% 24 +30% |
| Minimum operating voltage | VDC 10.8 * |
| Maximum operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| Protection | Module protected from overload and polarity inversion. outputs protected from overloads and short-circuits. |
| Connections | Fieldbus: 2 M12 F D encoding, internal switch. Power supply: M8, 4-PIN |
| Diagnostics ** | EtherCAT: via local LED lights and software messages. Outputs: via local LED lights and state bytes |
| Bus power supply current absorption | nominal Icc 180 mA at 24VDC |
| Maximum number of pilots | 128 |
| Maximum number of digital inputs | 128 |
| Maximum number of digital outputs | 128 |
| Maximum number of analogue inputs | 16 |
| Maximum number of analogue outputs | 16 |
| Maximum number of inputs for temperatures | 16 |
| Data bit value | 0 = non-active; 1 = active |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28

** Refer to the user manual for a detailed description.

*** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

CANopen WIRING DIAGRAM

VALVES

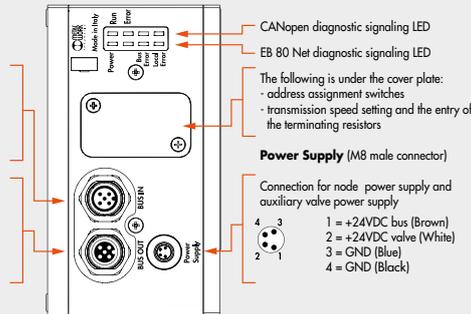
EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

Connection to the CANopen network
BUS IN (M12 male connector, A encoding)

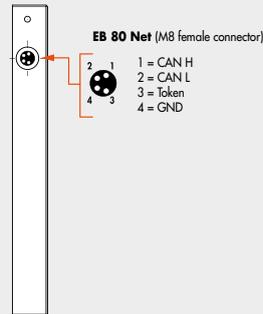
- 1 = CAN_SHLD
 - 2 = ...
 - 3 = CAN_GND
 - 4 = CAN_H
 - 5 = CAN_L
- Metal ring nut = Shield

BUS OUT (M12 female connector, A encoding)

- 1 = CAN_SHLD
 - 2 = ...
 - 3 = CAN_GND
 - 4 = CAN_H
 - 5 = CAN_L
- Metal ring nut = Shield



End plate with intermediate control



| TECHNICAL DATA | |
|--|--|
| Fieldbus | Complying with CiA DS401 specification |
| Factory settings | Module denomination: EB80series - Address 5 |
| Addressing | Hardware via DIP SWITCH |
| Supply voltage range | VDC 12 -10% 24 +30% |
| Minimum operating voltage | VDC 10.8 * |
| Maximum operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| Protection | Module protected from overload and polarity inversion. Outputs protected from overloads and short-circuits. |
| Connections | Fieldbus: BUS IN M12 Male, 5 poles, A encoding - BUS OUT M12 Female, 5 poles, encoding A - Power supply: M8, 4-PIN |
| Diagnostics** | CANopen: via local LED lights and software messages. Outputs: via local LED lights and state bytes |
| Bus power supply current absorption | nominal Icc 180 mA at 24VDC |
| Maximum number of pilots | 128 |
| Maximum number of digital inputs | 128 |
| Maximum number of digital outputs | 128 |
| Maximum number of analogue inputs | 16 |
| Maximum number of analogue outputs | 16 |
| Maximum number of inputs for temperatures | 16 |
| Data bit value | 0 = non-active; 1 = active |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state |

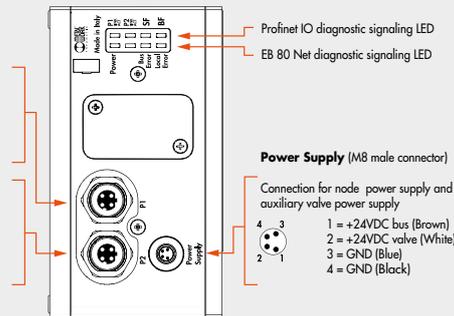
* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28
 ** Refer to the user manual for a detailed description.
 *** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

Profinet IO WIRING DIAGRAM

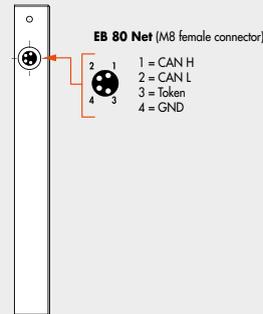
Connection to the Profinet IO network

P1 (M12 female connector, D encoding)
 1 = TD+
 2 = RD+
 3 = TD-
 4 = RD-
 Metal ring nut = Shield

P2 (M12 female connector, D encoding)
 1 = TD+
 2 = RD+
 3 = TD-
 4 = RD-
 Metal ring nut = Shield



End plate with intermediate control



VALVES

EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

| TECHNICAL DATA | |
|--|--|
| Fieldbus | 100 Mbit/s - Full-duplex - Supports Fast Start Up, RT communication, Shared Device, Identification & Maintenance 1-4 |
| Factory settings | Module denomination: EB80series - IP address: 0.0.0.0 |
| Addressing | DCP Software |
| Supply voltage range | VDC 12 -10% 24 +30% |
| Minimum operating voltage | VDC 10.8 * |
| Maximum operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| Protection | Module protected from overload and polarity inversion. Outputs protected from overloads and short-circuits. |
| Connections | Fieldbus: 2 M12 Female, D encoding, internal switch. Power supply: M8, 4-PIN |
| Diagnostics ** | Profinet IO: via local LED lights and software messages. Outputs: via local LED lights and state bytes |
| Bus power supply current absorption | nominal Icc 180 mA at 24VDC |
| Maximum number of pilots | 128 |
| Maximum number of digital inputs | 128 |
| Maximum number of digital outputs | 128 |
| Maximum number of analogue inputs | 16 |
| Maximum number of analogue outputs | 16 |
| Maximum number of inputs for temperatures | 16 |
| Data bit value | 0 = non-active; 1= active |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28
 ** Refer to the user manual for a detailed description.
 *** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

Profibus-DP WIRING DIAGRAM

Connection to the Profibus-DP network

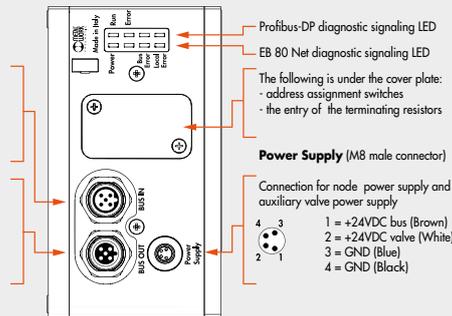
BUS IN (M12 Male Connector, B encoding)

- 1 = 5 VDC*
- 2 = A
- 3 = 0 VDC*
- 4 = B
- 5 = Shield

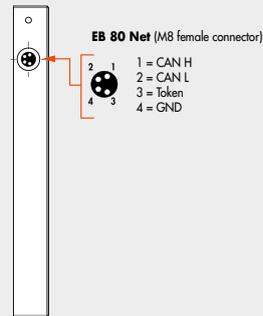
BUS OUT (M12 female connector, B encoding)

- 1 = 5 VDC*
- 2 = A
- 3 = 0 VDC*
- 4 = B
- 5 = Shield

* DO NOT CONNECT PIN 1 and PIN 3:
Only the power supply of external terminating resistors must be used.



End plate with intermediate control



TECHNICAL DATA

| | | |
|--|--|-----------------|
| Fieldbus | Complying with Profibus-DP DIN E 1924 specification | |
| Factory settings | Module denomination: EB80series - Address 5 | |
| Addressing | Hardware via ROTARY SWITCH | |
| Supply voltage range | VDC | 12 -10% 24 +30% |
| Minimum operating voltage | VDC | 10.8 * |
| Maximum operating voltage | VDC | 31.2 |
| Maximum admissible voltage | VDC | 32 *** |
| Protection | Module protected from overload and polarity inversion. Outputs protected from overloads and short-circuits. | |
| Connections | Fieldbus: BUS IN M12 Male, 5 poles, B encoding - BUS OUT M12 Female, 5 poles, B encoding - Power supply: M8, 4-PIN | |
| Diagnostics ** | Profibus-DP: via local LED lights and software messages. Outputs: via local LED lights and state bytes | |
| Bus power supply current absorption | nominal Icc 180 mA at 24VDC | |
| Maximum number of pilots | 128 | |
| Maximum number of digital inputs | 128 | |
| Maximum number of digital outputs | 128 | |
| Maximum number of analogue inputs | 16 | |
| Maximum number of analogue outputs | 16 | |
| Maximum number of inputs for temperatures | 16 | |
| Data bit value | 0 = non-active; 1= active | |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state | |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28

** Refer to the user manual for a detailed description.

*** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

Ethernet POWERLINK WIRING DIAGRAM

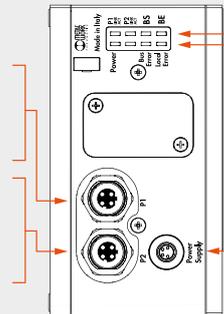
Connection to the Ethernet POWERLINK network

P1 (M12 female connector, D encoding)

- 1 = TD+
- 2 = RD+
- 3 = TD-
- 4 = RD-
- Metal ring nut = Shield

P2 (M12 female connector, D encoding)

- 1 = TD+
- 2 = RD+
- 3 = TD-
- 4 = RD-
- Metal ring nut = Shield



Ethernet POWERLINK diagnostic signaling LED
EB 80 Net diagnostic signaling LED

Power Supply (M8 male connector)

- Connection for node power supply and auxiliary valve power supply
- 4 3 1 = +24VDC bus (Brown)
- 2 1 2 = +24VDC valve (White)
- 3 = GND (Blue)
- 4 = GND (Black)

End plate with intermediate control



EB 80 Net (M8 female connector)

- 1 = CAN H
- 2 = CAN L
- 3 = Token
- 4 = GND

VALVES

EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

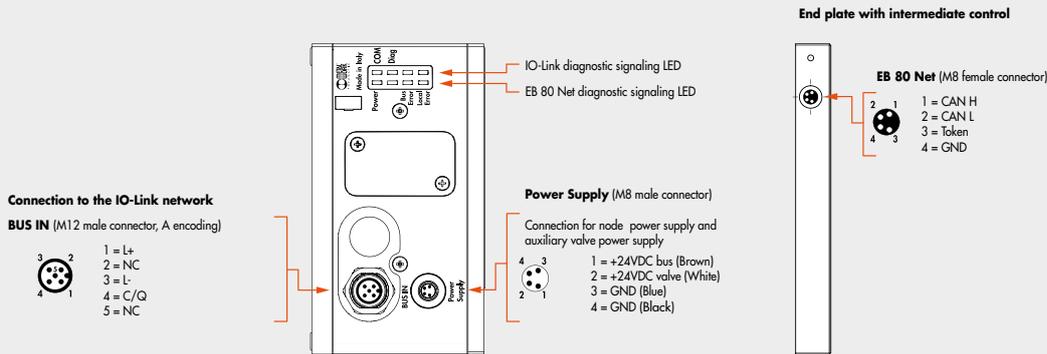
| TECHNICAL DATA | |
|--|---|
| Fieldbus | 100 Mbit/S - Half-duplex - Supports auto-negotiation |
| Factory settings | module denomination: EB80series address number 2 |
| Addressing | Hardware by rotary switch |
| Supply voltage range | VDC 12 -10% 24 +30% |
| Minimum operating voltage | VDC 10.8 * |
| Maximum operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| Protection | Module protected from overload and polarity inversion. Outputs protected from overloads and short-circuits. |
| Connections | Fieldbus: 2 M12 Female, D encoding, internal switch. Power supply: M8, 4-PIN |
| Diagnostics ** | Ethernet POWERLINK: via local LED lights and software messages. Outputs: via local LED lights and state bytes |
| Bus power supply current absorption | nominal Icc 180 mA at 24VDC |
| Maximum number of pilots | 128 |
| Maximum number of digital inputs | 128 |
| Maximum number of digital outputs | 128 |
| Maximum number of analogue inputs | 16 |
| Maximum number of analogue outputs | 16 |
| Maximum number of inputs for temperatures | 16 |
| Data bit value | 0 = non-active; 1= active |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28

** Refer to the user manual for a detailed description.

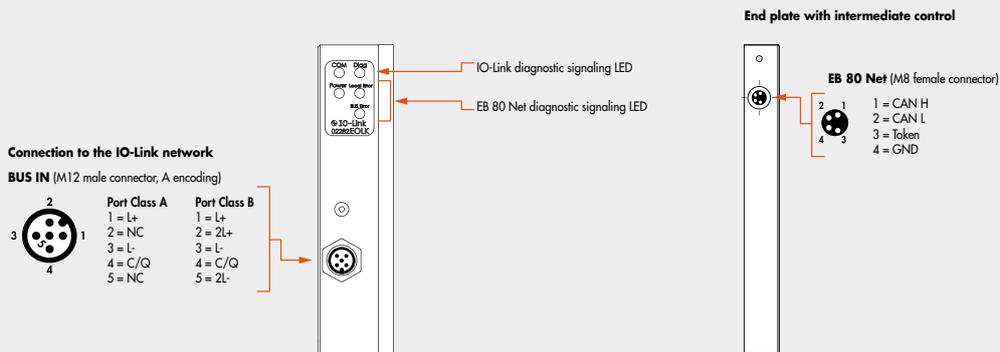
*** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

IO-Link 32 IN / 32 OUT WIRING DIAGRAM



| TECHNICAL DATA | |
|--|---|
| Fieldbus | IO-Link version 1.1 |
| Communication speed | Kbps 230.4 (COM3) |
| Vendor ID / Device ID | 1046 (hex 0x0416) / 32 (hex 0x000020) |
| Minimum cycle time | ms 2.8 |
| Process data length | 5 byte of Input / 4 byte of Output |
| Supply voltage range (M8 connector) | VDC 12 -10% 24 +30% |
| Minimum operating voltage | VDC 10.8 * |
| Maximum operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| IO-Link power supply (L+L - Bus IN connector) | VDC min 20, max 30 |
| Protection | Module protected from overload and polarity inversion. Outputs protected from overloads and short-circuits. |
| Connections | Fieldbus: M12 male, A-coded - port class A. Power supply: M8, 4-PIN |
| Diagnostics ** | IO-Link: via local LED lights and software messages. Outputs: via local LED lights and state bytes |
| Power supply current absorption | See IO-Link instruction manual |
| Maximum number of pilots | 32 |
| Maximum number of digital inputs | 32 |
| Data bit value | 0 = non-active; 1 = active |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28
 ** Refer to the user manual for a detailed description.
 *** **IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.**

IO-Link 64 OUT WIRING DIAGRAM

VALVES

| TECHNICAL DATA | |
|--|---|
| Fieldbus | IO-Link version 1.1 |
| Communication speed | Kbps 230.4 (COM3) |
| Vendor ID / Device ID | 1046 (hex 0x0416) / 64 (hex 0x000040) |
| Minimum cycle time | ms 2.8 |
| Process data length | 1 byte of Input / 8 byte of Output |
| Valves supply voltage range | VDC 12 -10% 24 +30% |
| Minimum valves operating voltage | VDC 10.8 * |
| Maximum valves operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| IO-Link power supply (L+L - Bus IN connector) | VDC min 18, max 30 |
| Protection | Module protected from overload and polarity inversion. Outputs protected from overloads and short-circuits. |
| Connections | Fieldbus: M12 male, A-coded - port class A - port class B |
| Diagnostics** | IO-Link: via local LED lights and software messages. Outputs: via local LED lights and state bytes |
| Power supply current absorption | See IO-Link 64 OUT instruction manual |
| Maximum number of pilots | 64 |
| Data bit value | 0 = non-active; 1 = active |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state |

* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28

** Refer to the user manual for a detailed description.

*** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

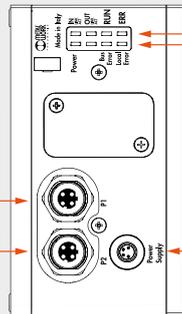
N.B.: The EB 80 island with IO-Link 64 OUT can be connected with an EB 80 island with Additional electrical control, but the latter cannot manage IN or OUT modules.

CC-Link IE Field Basic WIRING DIAGRAM

Connection to the CC-Link IE Field Basic network

P1 (M12 female connector, D encoding)
 1 = TD+
 2 = RD+
 3 = TD-
 4 = RD-
 Metal ring nut = Shield

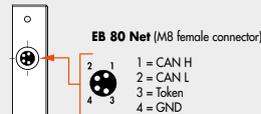
P2 (M12 female connector, D encoding)
 1 = TD+
 2 = RD+
 3 = TD-
 4 = RD-
 Metal ring nut = Shield



CC-Link IE Field Basic diagnostic signaling LED
 EB 80 Net diagnostic signaling LED

Power Supply (M8 male connector)
 Connection for node power supply and auxiliary valve power supply
 1 = +24VDC bus (Brown)
 2 = +24VDC valve (White)
 3 = GND (Blue)
 4 = GND (Black)

End plate with intermediate control



EB 80 Net (M8 female connector)
 1 = CAN H
 2 = CAN L
 3 = Token
 4 = GND

TECHNICAL DATA

| | |
|--|---|
| Fieldbus | 100 Mbit/s Number of occupied stations: from 1 to 4 |
| Factory settings | IP address: 192.168.3.32 Subnet Mask: 255.255.255.0 |
| Addressing | Software |
| Supply voltage range | VDC 12 -10% 24 +30% |
| Minimum operating voltage | VDC 10.8 * |
| Maximum operating voltage | VDC 31.2 |
| Maximum admissible voltage | VDC 32 *** |
| Protection | Module protected from overload and polarity inversion. Outputs protected from overloads and short-circuits. |
| Connections | Fieldbus: 2 M12 Female, D encoding, internal switch. Power supply: M8, 4-PIN |
| Diagnostics ** | CC-Link IE Field Basic: via local LED lights and software messages. Outputs: via local LED lights and state bytes |
| Bus power supply current absorption | nominal Icc 180 mA at 24VDC |
| Maximum number of pilots | 128 |
| Maximum number of digital inputs | 128 |
| Maximum number of digital outputs | 128 |
| Maximum number of analogue inputs | 16 |
| Maximum number of analogue outputs | 16 |
| Maximum number of inputs for temperatures | 16 |
| Data bit value | 0 = non-active; 1= active |
| State of outputs in the absence of communication | Configurable for each output: non-active, holding of the state, setting of a preset state |

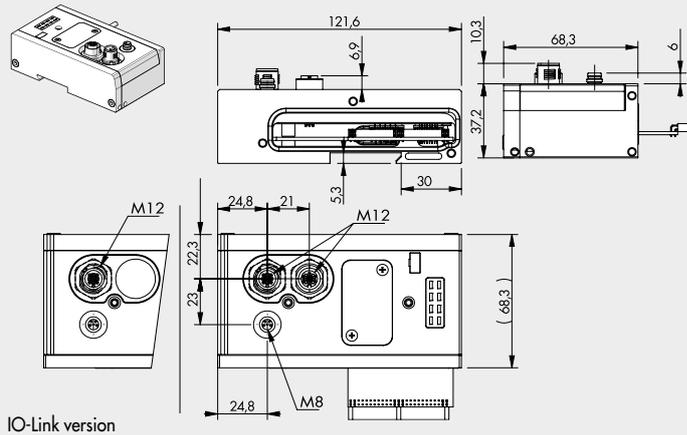
* Minimum voltage 10.8VDC required at solenoid pilots. Check the minimum voltage at the power supply output using the calculations shown on page B2.28

** Refer to the user manual for a detailed description.

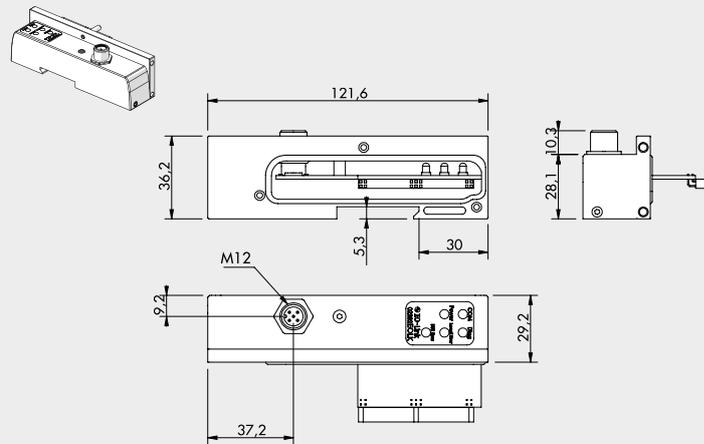
*** IMPORTANT! Voltage greater than 32VDC will damage the system irreparably.

DIMENSIONS - ORDERING CODES

ELECTRICAL CONNECTION FIELDBUS DIMENSION



| Code | Description | Weight [g] |
|-----------|--|------------|
| 02282E0EN | EB 80 Electrical connection EtherNet/IP | 600 |
| 02282E0EC | EB 80 Electrical connection EtherCAT | 600 |
| 02282E0PN | EB 80 Electrical connection Profinet IO | 600 |
| 02282E0CN | EB 80 Electrical connection CANopen | 600 |
| 02282E0PB | EB 80 Electrical connection Profibus-DP | 600 |
| 02282E0PL | EB 80 Electrical connection Ethernet POWERLINK | 600 |
| 02282E0IO | EB 80 Electrical connection IO-Link 32 IN / 32 OUT | 580 |
| 02282E0LK | EB 80 Electrical connection IO-Link 64 OUT | 190 |
| 02282E0CC | EB 80 Electrical connection CC-Link IE Field Basic | 580 |



VALVES

EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

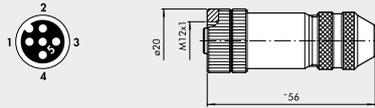
NOTES

ACCESSORIES

VALVES

EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

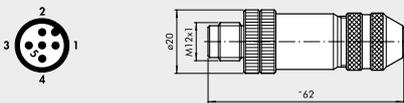
M12 FEMALE CONNECTOR FOR BUS-IN, A ENCODING



| Code | Description |
|------------|--|
| 0240009055 | M12 5-pin female connector, encoding A |

Note: Can be used for Bus CANopen and IO-Link

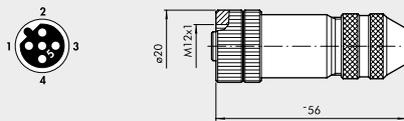
M12 MALE CONNECTOR FOR BUS-IN, A ENCODING



| Code | Description |
|------------|--------------------------------------|
| 0240009038 | M12 5-pin male connector, encoding A |

Note: Can be used for Bus CANopen

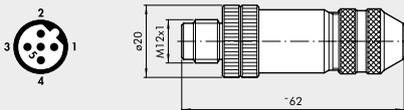
M12 FEMALE CONNECTOR FOR BUS-IN, B ENCODING



| Code | Description |
|------------|--|
| 0240009036 | M12 5-pin female connector, encoding B |

Note: Can be used for Profibus-DP

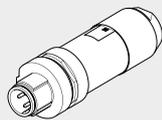
M12 MALE CONNECTOR FOR BUS-IN, B ENCODING



| Code | Description |
|------------|--------------------------------------|
| 0240009035 | M12 5-pin male connector, encoding B |

Note: Can be used for Profibus-DP

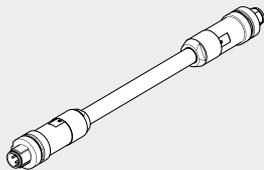
M12 BUS CONNECTOR, D ENCODING



| Code | Description |
|------------|----------------------------------|
| 0240005051 | M12 4-pin BUS connector, D-coded |

Note: Can be used for BUS units in the EtherNet family (Profinet IO, EtherCAT, EtherNet/IP, Ethernet POWERLINK, CC-Link IE Field Basic)

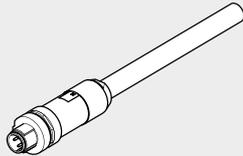
STRAIGHT CONNECTOR FOR M12-M12 BUS, D-CODED



| Code | Description |
|------------|--|
| 0240005103 | Straight connector for M12-M12 4-pin BUS, D-coded, with 3 m cable |
| 0240005105 | Straight connector for M12-M12 4-pin BUS, D-coded, with 5 m cable |
| 0240005110 | Straight connector for M12-M12 4-pin BUS, D-coded, with 10 m cable |

Note: Can be used for BUS units in the EtherNet family (Profinet IO, EtherCAT, EtherNet/IP, Ethernet POWERLINK, CC-Link IE Field Basic)

STRAIGHT CONNECTOR FOR M12 BUS, D-CODED

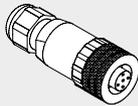


| Pin | Cable color |
|-----|-------------|
| 1 | Yellow |
| 2 | White |
| 3 | Red |
| 4 | Blue |

| Code | Description |
|------------|--|
| 0240005093 | Straight connector for M12 4-pin BUS, D-coded, with 3 m cable |
| 0240005095 | Straight connector for M12 4-pin BUS, D-coded, with 5 m cable |
| 0240005100 | Straight connector for M12 4-pin BUS, D-coded, with 10 m cable |

Note: Can be used for BUS units in the EtherNet family (Profinet IO, EtherCAT, EtherNet/IP, Ethernet POWERLINK, CC-Link IE Field Basic)

STRAIGHT CONNECTOR FOR M12, A-CODED

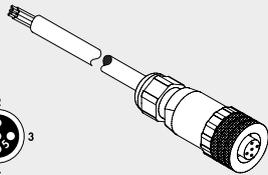


| Code | Description |
|-------------|--------------------------------|
| W0970513001 | 5-PIN M12x1 straight connector |

Note: Can be used for IO-Link

STRAIGHT CONNECTOR WITH WIRE FOR M12, A-CODED

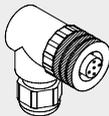
| Pin | Cable color |
|-----|-------------|
| 1 | Brown |
| 2 | White |
| 3 | Blue |
| 4 | Black |
| 5 | Gray |



| Code | Description |
|-------------|--|
| W0970513002 | 5-PIN M12x1 straight connector with wire L = 5 m |

Note: Can be used for IO-Link

90° CONNECTOR FOR M12, A-CODED

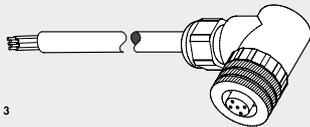


| Code | Description |
|-------------|---------------------------|
| W0970513003 | M12x1 5-PIN 90° connector |

Note: Can be used for IO-Link

90° CONNECTOR WITH WIRE FOR M12, A-CODED

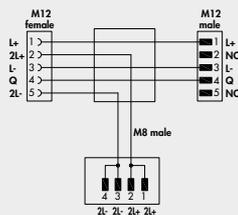
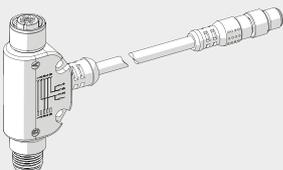
| Pin | Cable color |
|-----|-------------|
| 1 | Brown |
| 2 | White |
| 3 | Blue |
| 4 | Black |
| 5 | Gray |



| Code | Description |
|-------------|---|
| W0970513004 | M12x1 5-PIN 90° connector with wire L = 5 m |

Note: Can be used for IO-Link

T-CONNECTOR M12 A-CODED / M8 MALE FOR AUXILIARY POWER



| Code | Description |
|------------|-----------------------------------|
| 0240009070 | T - connector for auxiliary power |

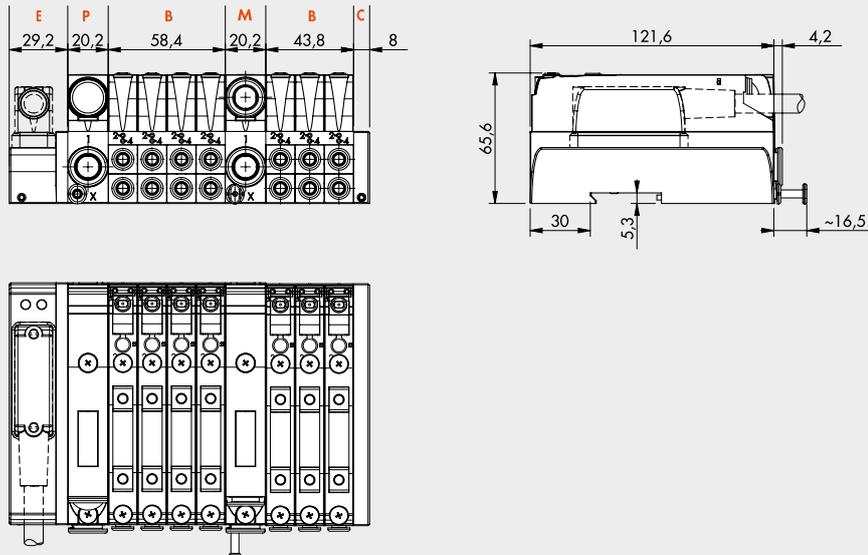
Note: Can be used for IO-Link 64 OUT

VALVES

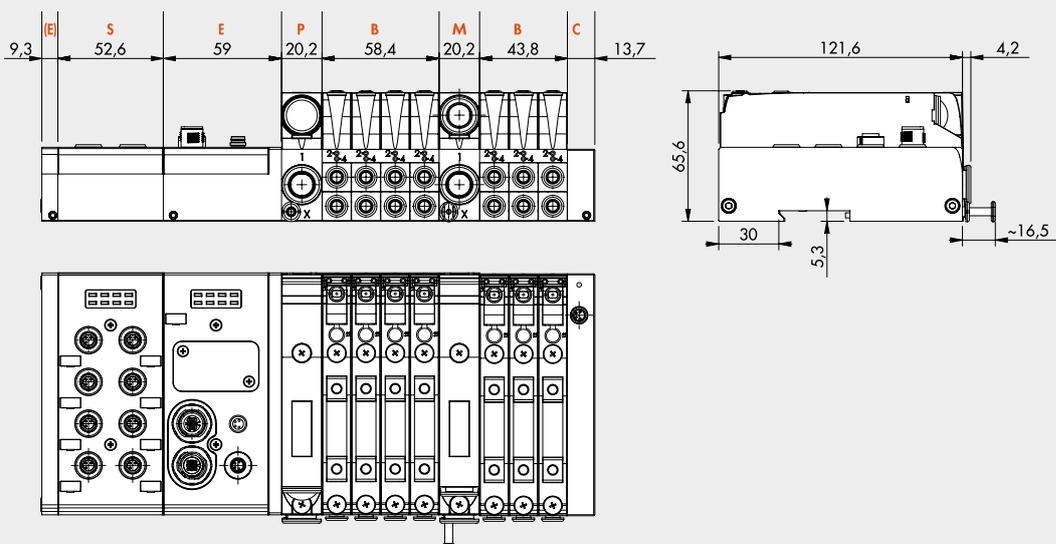
EB 80 - ELECTRICAL CONNECTION WITH FIELDBUS - E

DIMENSIONS

DIMENSION OF VERSIONS WITH MULTI-POLE CONNECTION



DIMENSION OF VERSIONS WITH FIELD BUS OR ADDITIONAL CONNECTION



VALVES

EB 80 ELECTRO-PNEUMATIC SYSTEM

EB 80 INDUSTRY 4.0

The new advanced EB 80 diagnostic functions, known as EB 80 I4.0, provide a powerful analysis tool for traditional maintenance operations, ensuring the safe, reliable and lasting operation of production units.

They are available for all electrical connections with fieldbuses and bases marked I4.0, with advanced diagnostics integrated in accordance with Industry 4.0 philosophy.

These functions use the original EB 80 diagnostics, integrating them with the ability of the station itself to control IOs.

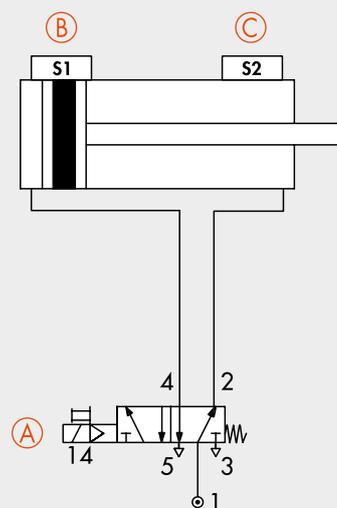
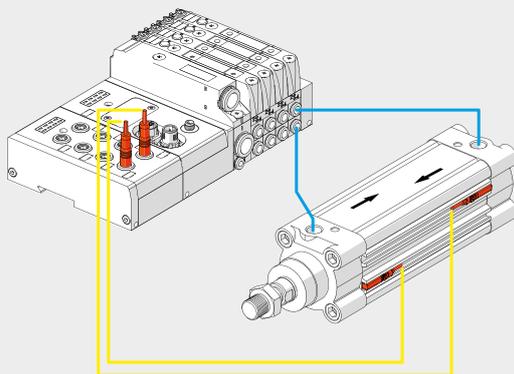
They re-organise and optimise maintenance management by developing predictive maintenance in order to:

- predict faults;
- intervene early to avoid system downtime;
- have all information on equipment operation available in real time;
- monitor component end-of-lifetime;
- optimise warehouse spare parts management.

This makes it possible to turn the data collected into concrete actions using standard EB 80 stations without needing additional modules.

Description of EB 80 I4.0 functions:

- System data:
 - EB 80 system startup counter;
 - supply alert counter.
- Valve data. Each valve base for each solenoid valve permanently stores the following information:
 - cycle counter;
 - counter for total solenoid valve excitation time;
 - activation of a flag to signal average lifetime exceeded;
 - short circuit alert counter;
 - open circuit alert counter.
- Electropneumatic system control functions (data updated with each cycle):
 - measurement of the delay between activating the solenoid valve "A" and actuator movement commencing via the signal of sensor "B", with delays that exceed the limit flagged;
 - measurement of actuator movement time using two linked sensors "B" and "C", with exceeded time limits flagged;
 - measurement of the delay between deactivating the solenoid valve "A" (or activating a second valve) and actuator return commencing via the signal of sensor "B", with exceeded time limits flagged;
 - measurement of actuator return time using two linked sensors "B" and "C", with exceeded time limits flagged;
 - counter for actuator range of motion.



PLC-BASED DATA COLLECTION

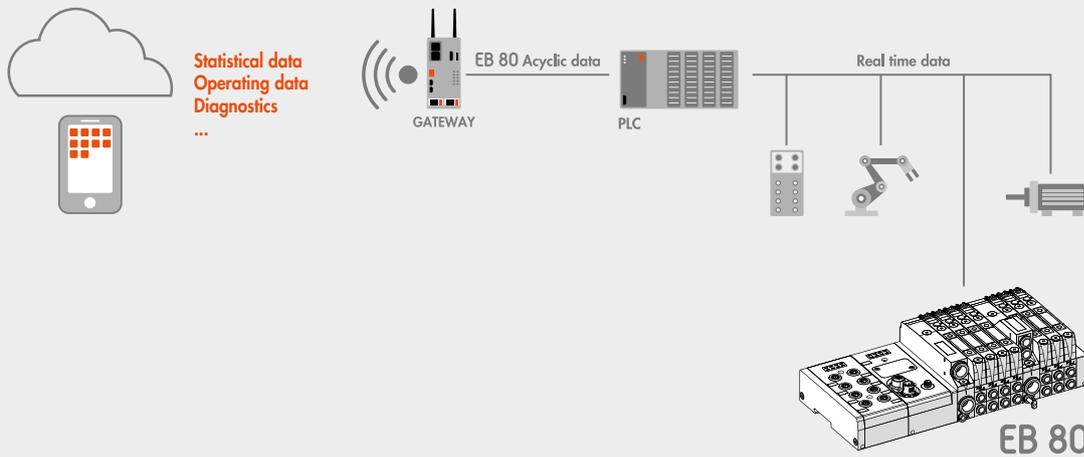
Electrical connection modules can be used to complement the EB 80 with the main field buses available in the market. In this way, the control system (generally a PLC) can handle in real time the behaviour of the solenoid valve island, including signal modules.

With the introduction of the I4.0 version, the field bus connection modules also send to the network the historical and diagnostic data relating to the behaviour of the island (such as the number of cycles for each solenoid pilot, total activation time and alarms) and the controlled pneumatic circuit (such as the delay times in sensor switching and actuator activation times).

This data is also sent to the control system and can be handled differently depending on the situation: in some cases, it can be used in real time, like in the case of fault alarms; in other cases, it can be sent to a storage local unit or one remotely controlled on a cloud server, and is analysed in a subsequent stage; in other cases, the alarms can be sent to a teleservice station that can monitor the state of the system remotely.

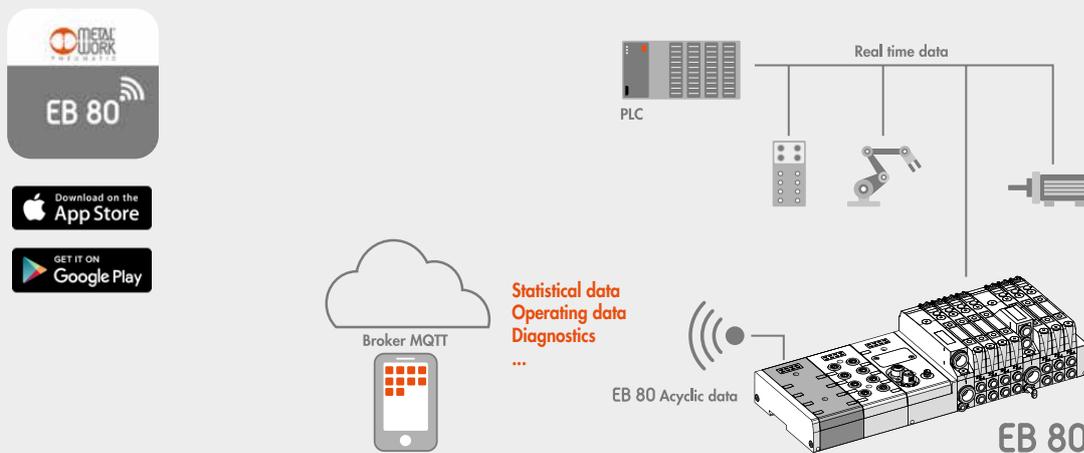
VALVES

EB 80 ELECTRO-PNEUMATIC SYSTEM



EB 80 WIRELESS DATA COLLECTION

Integrated into the EB 80, this module provides connection to Wi-Fi networks and Bluetooth® devices to display diagnostic and operating data. The APP specifically developed by Metal Work, called EB80Up, can connect Android and IOS devices for easy viewing of diagnostic and operating data plus the setting of network parameters.



Accessories

| | Art. No. | Type No. |
|--|----------|------------|
| Multi-pole cable, D-Sub female connector 25-pin 90° / open ended, IP65, length 1 m | 153728 | 02269A0100 |
| Multi-pole cable, D-Sub female connector 25-pin 90° / open ended, IP65, length 2.5 m | 153729 | 02269A0250 |
| Multi-pole cable, D-Sub female connector 25-pin 90° / open ended, IP65, length 5 m | 153730 | 02269A0500 |
| Multi-pole cable, D-Sub female connector 25-pin 90° / open ended, IP65, length 10 m | 153731 | 02269A1000 |
| Multi-pole cable, D-Sub female connector 25-pin 90° / open ended, IP65, length 20 m | 153732 | 02269A2000 |
| Additional fixing bracket for OMEGA bar, for valve island EB 80 | 153576 | 02282R4001 |

Spareparts

| | Art. No. | Type No. |
|--|----------|------------|
| EB 80 interface gasket for electrical connection, PU 10 pcs. | 153910 | 02282R1003 |