

Proportional amplifier type EV2D

Product documentation



Supply voltage U_B : 19 to 30 V DC
Output current I_{max} : 4 A



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1 Overview of proportional amplifier type EV2D

Proportional amplifiers actuate proportional solenoid valves by converting an input signal into a corresponding control current.

The electronic proportional amplifier EV2D is a multi-channel amplifier for controlling or regulating up to six consumers.

The various different configurable parameters enable optimal adjustment to the relevant application. An RJ45 interface can be used to establish a direct connection to a PC. Diagnostics and parametrisation of the EV2D take place using PC software. The feedback measurement at the valve outputs identifies and corrects the effects of temperature and the power supply. Combined with up to four parametrisable PID regulators, highly precise process functions are possible. Analogue sensor signals and setpoints are processed. In the event of a fault, the attached consumers are shut down using the safety function (STO). The safety function integrated into the controls replaces the complex installation of external safety components. It can be requested, or activated by a fault.

The EV2D with LAN interface is available as an option. It can be integrated into the machine controls using EtherCAT.

Features and advantages

- Compact design
- LAN interface
- EtherCAT interface
- UL-approved
- SIL 3-certified (STO)

Intended applications

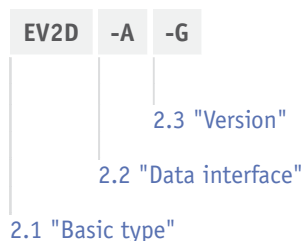
- Stationary hydraulics
- Press brakes
- Machine tools
- Closed control circuits



Proportional amplifiers Type EV2D

2 Available versions

Ordering example



2.1 Basic type

Type	Description
EV2D	with SIL 3 certified safety function (STO)
EV2DU	without safety function, with additional adjustable dither function for universal applications

2.2 Data interface

Coding	Description
A	Setpoint specification via analog signals
EC	Setpoint specification via EtherCAT
IE	Setpoint specification via EtherCAT

2.3 Version

Coding	Description
G	Basic version – 2 x IPWM outputs
EW	Extended version – 6 x IPWM outputs

2.4 Accessories

EV2D connection set

Order coding	EV2D connection set
Order number	6217 8044-00
Description	<ul style="list-style-type: none"> ▪ Connector, black with push-in spring connection ▪ Max. conductor cross-section 1.5 mm², also see Chapter 5.1.3, "Connecting the terminal strips" ▪ 6 pieces per set ▪ Basic version needs 1 set ▪ Extended version needs 2 sets

2.5 Software

Parametrisation

The electronic digital amplifier EV2D is a proportional multi-channel amplifier for position or pressure regulation. The various different configurable parameters enable optimal adjustment to the relevant application. For parametrisation, a connection between an operator (e.g. PC) and the EV2D must be established via an RJ45 interface.

Tera Term

Designation	Tera Term
Description	Open-source terminal with communication channels via COM interface or TCP/IP
Function	Parametrisation and diagnostics
Downloads	https://tera-term.de.softonic.com/

Web Server

Designation	Web Server
Description	Browser interface for communicating with the EV2D
Function	Parametrisation and diagnostics

HAWE Visual Tool

Designation	HAWE Visual Tool
Description	The free software HAWE Visual Tool offers a clear graphic representation of all inputs and outputs.
Functions	The dither parameters of the EV2DU can only be parametrised using the HAWE Visual Tool parameterisation software via the RJ45 interface.
Download	HAWE software in the Product Finder

3 Parameters

3.1 General data

General

Weight	Variable (dependent on type)
Attachment	Support rail NS35 / 7.5 in accordance with DIN EN 60715
Installation position	<ul style="list-style-type: none"> ▪ Vertical with ventilation slots at top and bottom ▪ Lateral distance between the assemblies: at least 10 mm
Degree of contamination	Pollution degree rating 2 in accordance with IEC 60664-1
Duty cycle	100 %
Protection class	IP 20
Vibration resistance	<ul style="list-style-type: none"> ▪ 5 to 9 Hz: 3.5 mm amplitude, sine sweep in all 3 axes ▪ 9 to 150 Hz: 0.5 g acceleration over 24 h in all 3 axes
Shock resistance	15 g during 11 ms in all 3 axes, half sine wave

Operation

Class 3K3	IEC/EN 60721-3-3
Operating environment	Inside
Operation in direct sunlight	No
Operation in explosive atmosphere	No
Operating temperature	-10 to 55°C
Ambient temperature	-10 to 55°C
Max. permissible humidity	95 % (no condensation)
Operating altitude	2000 m

3.2 Electrical data

Analogue signal inputs

Target value voltage $U_{\text{setp } 1}$ to $U_{\text{setp } 4}$	-10 to 10 V
Actual value voltage $U_{\text{fb } 1}$ and $U_{\text{fb } 2}$	0 to 12 V DC (approx. 0.8 V fed in internally when unconnected) *
Sensor signals P1 and P2	4 to 20 mA

Digital message output

Enable / block input	<p>OSSD-suitable with 1 ms blanking interval, classification as binary 24 V-interface with sampling</p> <p>Sink C1 – source C1</p> <p>Uncontrolled shutdown in line with Stop Category 0 in accordance with EN 60204-1</p> <p>Digital input according to IEC 61131-2 Type 2</p>
Error message output	Short-circuit-proof digital output according to IEC 61131-2
Output current I_{out}	0 to 200 mA (typically: 150 mA)
Output voltage U_{out}	19 to 30 V DC; switched to U_b (typically: 24 V), no surge protection
Overvoltage category	I
Protection class	III (SELV)

Control unit (electronics)

Supply voltage U_B	19 to 30 V DC (typically: 24 V) **, SELV at least CAT II
Current consumption I_{max}	90 to 500 mA depending on the configuration
RJ45 interface	Ethernet TCP/IP for parameterization and diagnostics
Communication	EtherCAT

Load circuit 1

Supply voltage $V_{\text{DC } 1}$	21 to 30 V DC (typically: 24 V) **
Max. load current I_{max}	5 A; dependent on the consumer
Consumer output current $I_{\text{out } 1}$ and $I_{\text{out } 2}$	0 to 4 A (typically: 2 A); dependent on the consumer
Temperature drift	0.91 mA/K (measured at ambient temperature of 24°C)

Load circuit 2

Supply voltage $V_{DC 2}$	21 to 30 V DC (typically: 24 V) **
Max. load current I_{max}	5 A; dependent on the consumer
Consumer output current $I_{out 3}$ and $I_{out 4}$	0 to 4 A (typically: 2 A); dependent on the consumer
Temperature drift	0.91 mA/K (measured at ambient temperature of 24°C)

Load circuit 3

Supply voltage $V_{DC 3}$	21 to 30 V DC (typically: 24 V) **
Max. load current I_{max}	5 A; dependent on the consumer
Consumer output current $I_{out 5}$ and $I_{out 6}$	0 to 4 A (typically: 2 A); dependent on the consumer
Temperature drift	0.91 mA/K (measured at ambient temperature of 24°C)

* The behaviour must be considered in a risk assessment.

** Residual ripple < 10% (measurement: 3rd harmonic at phase angle of 0° and 180°)

3.3 Communication

LAN interface	EtherCAT *
RJ45 service interface	Ethernet TCP/IP

* For the LAN connection, we recommend the EtherCAT cable Beckhoff ZK1090-3191-0xxx

3.4 Applicable directives and standards

Standard	Designation
DIN EN 60204-1: 2019-06 *	Safety of machinery <ul style="list-style-type: none"> – Electrical equipment of machines – Part 1: General requirements
DIN EN 61131-2: 2015-06	Industrial-process control systems - Instruments with analogue inputs and two- or multi-state outputs <ul style="list-style-type: none"> – Part 2: Guidance for inspection and routine testing (IEC 61131-2: 2007)
DIN EN 61340-5-1: 2017-07	Protection of electronic devices from electrostatic phenomena <ul style="list-style-type: none"> – General requirements
Machinery Directive 2006/42/EC *	Machinery Directive
Directive 2014/30/EU	EMC Directive
DIN EN IEC 61000-6-2: 2019-11	Electromagnetic compatibility (EMC) <ul style="list-style-type: none"> – Part 6 - 2: Generic standards – Immunity standard for industrial environments
DIN EN 61000-6-4: 2020-09	Electromagnetic compatibility (EMC) <ul style="list-style-type: none"> – Part 6 - 4: Generic standards – Emission standard for industrial environments
DIN EN 62061: 2016-05 *	Safety of machinery <ul style="list-style-type: none"> – Functional safety of safety-related electrical, electronic and programmable electronic control systems
DIN EN ISO 13849-1: 2016-06 *	Safety of machinery <ul style="list-style-type: none"> – Safety-related parts of control systems – Part 1: General principles for design
DIN EN IEC 63000: 2019-05	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
2011/65/EU	RoHS Directive

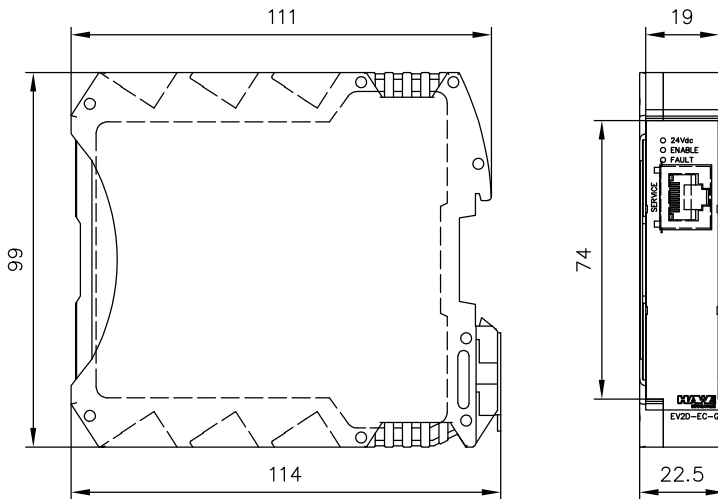
* These guidelines and standards only concern the EV2D variant.

4 Dimensions

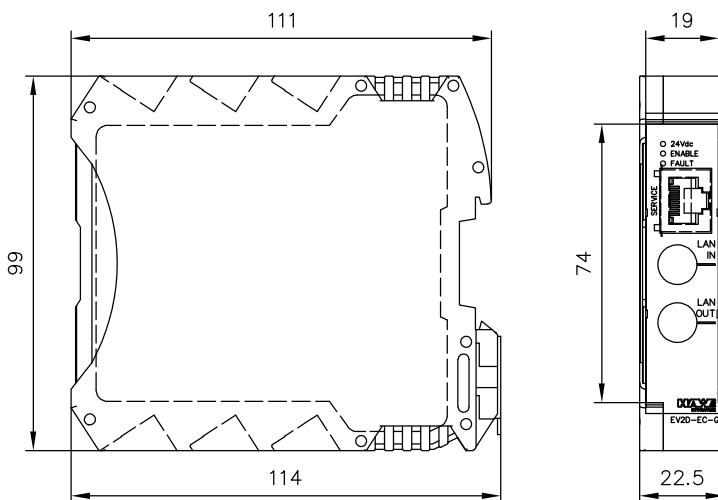
All dimensions in mm, subject to change.

4.1 Proportional amplifier type EV2D

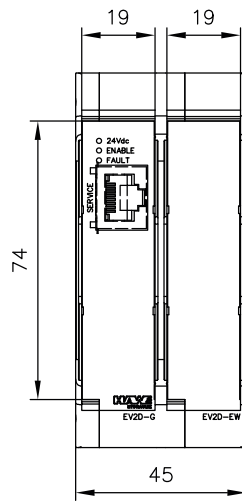
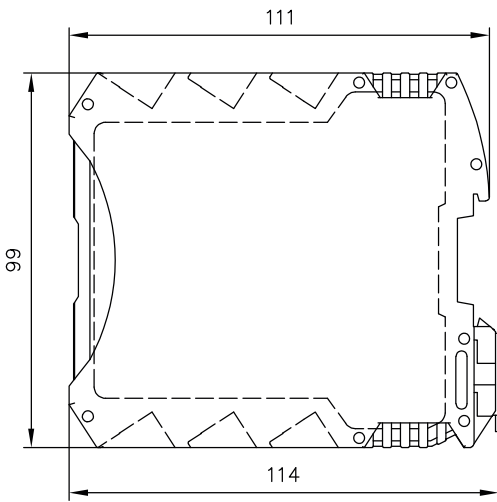
EV2D-A-G
EV2DU-A-G



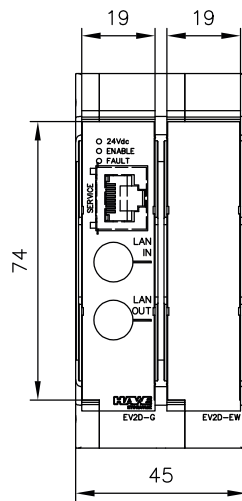
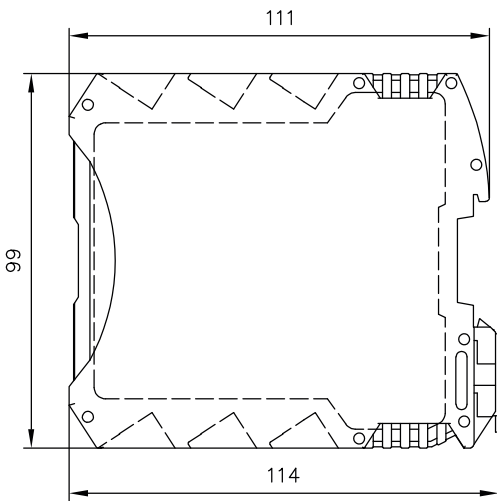
EV2D-EC-G
EV2DU-IE-G



EV2D-A-EW
EV2DU-A-EW



EV2D-EC-EW
EV2DU-IE-EW



5 Installation, operation and maintenance information

NOTICE

Available for this product: operating and installation instructions with notes on:

- intended use,
- operating and maintenance,
- Assembly information

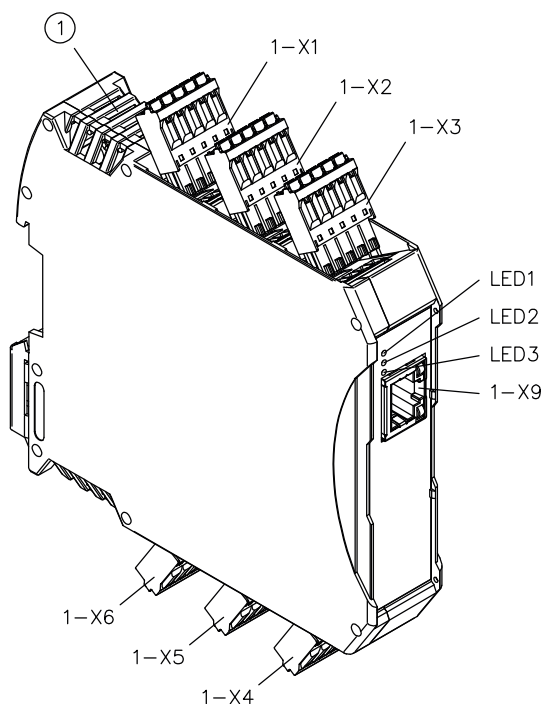
B 7821 Installation instructions

B 7821 U

5.1 Electrical connection

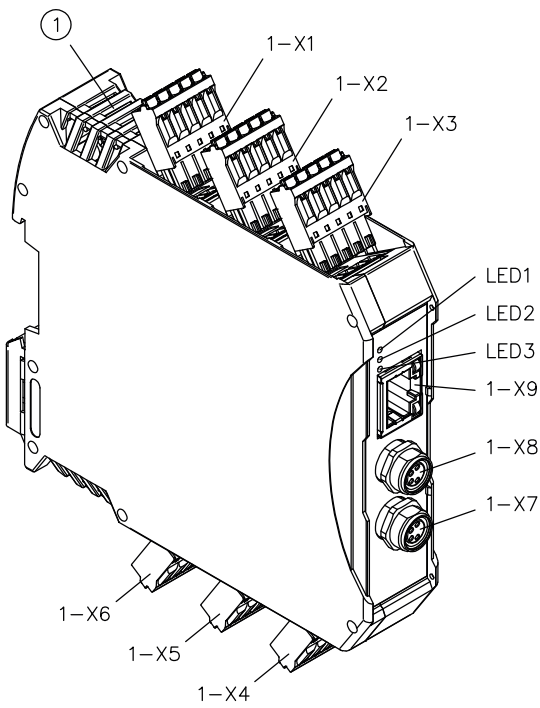
5.1.1 Connection pattern

EV2D-A-G/EV2DU-A-G



- **1-X1** Sensor connection LVDT2
- **1-X2** Sensor connection LVDT1
- **1-X3** Setpoints S1 / S2
- **1-X4** safety function STO/release function
- **1-X5** Load circuits Y1 / Y2
- **1-X6** Ub electronics / FAULT / GND
- **1-X9** RJ45 interface
- **LED1** POWER (green)
- **LED2** ENABLE (yellow)
- **LED3** FAULT (red)

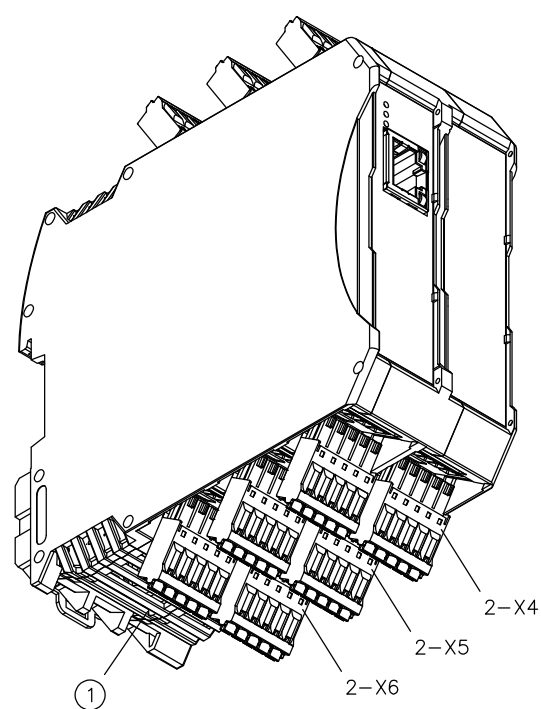
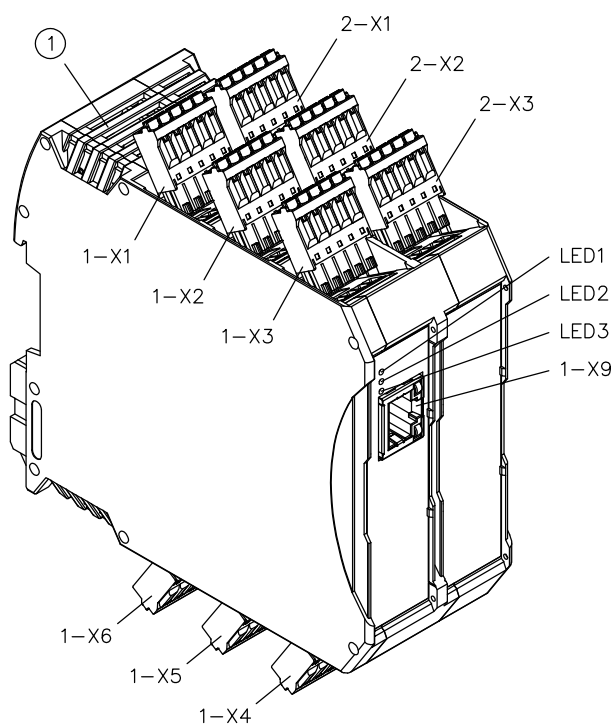
1 Ventilation slot



1 Ventilation slot

- **1-X1** Sensor connection LVDT2
- **1-X2** Sensor connection LVDT1
- **1-X3** N.C.
- **1-X4** safety function STO/release function
- **1-X5** Load circuit for consumers Y1 / Y2
- **1-X6** Ub electronics / FAULT / GND
- **1-X7** LAN-IN (e.g. EtherCAT)
- **1-X8** LAN-OUT (e.g. EtherCAT)
- **1-X9** RJ45 interface

- **LED1** POWER (green)
- **LED2** ENABLE (yellow)
- **LED3** FAULT (red)

EV2D-A-EW/EV2DU-A-EW


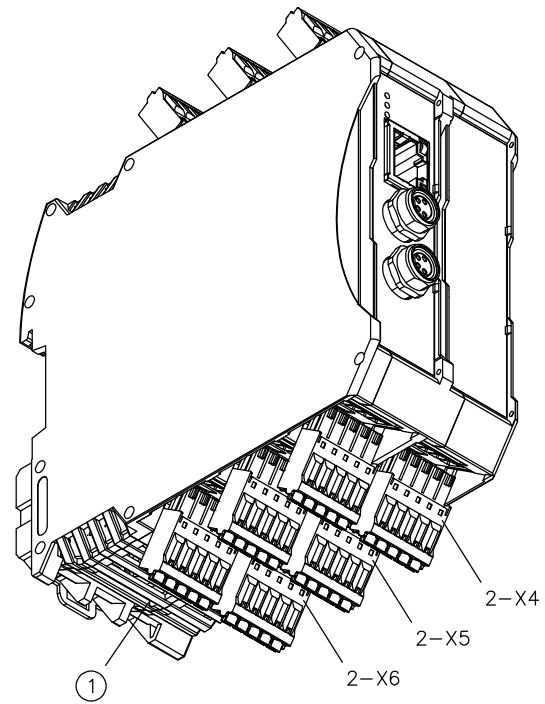
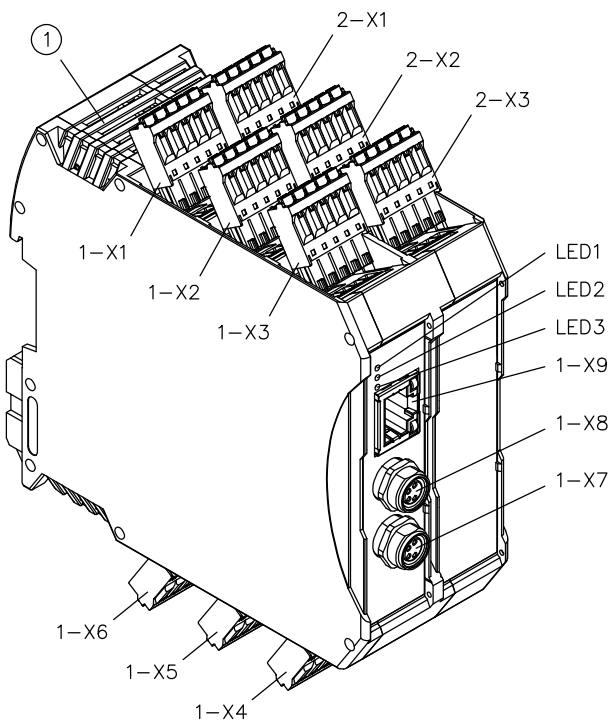
1 Ventilation slot

- **1-X1** Sensor connection LVDT2
- **1-X2** Sensor connection LVDT1
- **1-X3** Setpoints S1 / S2
- **1-X4** safety function STO/release function
- **1-X5** Load circuit for consumers Y1 / Y2
- **1-X6** Ub electronics / FAULT / GND
- **1-X9** RJ45 interface

- **LED1** POWER (green)
- **LED2** ENABLE (yellow)
- **LED3** FAULT (red)

- **2-X1** P2
- **2-X2** P1
- **2-X3** Setpoints S3 / S4

- **2-X4** Load circuit for consumers Y3 / Y4
- **2-X5** Load circuit for consumers Y5 / Y6
- **2-X6** GND point EW



1 Ventilation slot

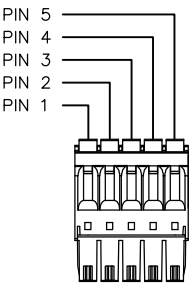
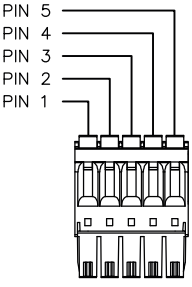
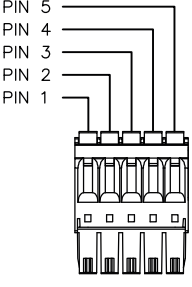
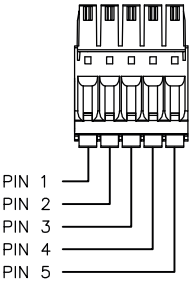
- **1-X1** Sensor connection LVDT2
- **1-X2** Sensor connection LVDT1
- **1-X3** N.C.
- **1-X4** safety function STO/release function
- **1-X5** Load circuit for consumers Y1 / Y2
- **1-X6** Ub electronics / FAULT / GND
- **1-X7** LAN-IN (e.g. EtherCAT)
- **1-X8** LAN-OUT (e.g. EtherCAT)
- **1-X9** RJ45 interface

- **LED1** POWER (green)
- **LED2** ENABLE (yellow)
- **LED3** FAULT (red)

- **2-X1** P2
- **2-X2** P1
- **2-X3** N.C.

- **2-X4** Load circuit for consumers Y3 / Y4
- **2-X5** Load circuit for consumers Y5 / Y6
- **2-X6** GND point EW

5.1.2 Assignment of terminal strips

Terminal strip	Pin	Name	Description	Specification
1-X1 	1	U _B	Supply voltage for LVDT 2	<ul style="list-style-type: none"> U = 24 V DC I_{max} = 50 mA
	2	U _A	Analogue position signal / CAN-High signal	<ul style="list-style-type: none"> 3 to 12 V Output signal CAN-High level
	3	GND	Digital ground; reference potential for inputs/outputs (U _{in} , U _{out})	
	4	U _s	Digital position signal	
	5	N.C.	Not contacted CAN- / Low signal	In case of CAN interface, CAN-Low level
1-X2 	1	U _B	Supply voltage for LVDT 1	<ul style="list-style-type: none"> U = 24 V DC I_{max} = 50 mA
	2	U _A	Analogue position signal / CAN-High signal	<ul style="list-style-type: none"> 3 to 12 V Output signal CAN-High level
	3	GND	Digital ground; reference potential for inputs/outputs (U _{in} , U _{out})	
	4	U _s	Digital position signal	
	5	N.C.	Not contacted CAN- / Low signal	In case of CAN interface, CAN-Low level
1-X3 	1	S2_M	Analogue setpoint for 2-X4 (minus-level in case of differential input)	<ul style="list-style-type: none"> -10 V to +10 V analogue target value R_{in} > 10 kΩ
	2	S2_P	Analogue setpoint for 2-X4 (plus-level in case of differential input)	See Pin 1
	3	GND	Digital ground; reference potential for inputs/outputs (U _{in} , U _{out})	
	4	S1_M	Analogue setpoint for 1-X5 (minus-level in case of differential input)	<ul style="list-style-type: none"> -10 V to +10 V analogue setpoint R_{in} > 10 kΩ
	5	S1_P	Analogue setpoint for 1-X5 (plus-level in case of differential input)	See Pin 4
Resolution of the analogue input signals is carried out with 12 bits				
1-X4 	1	- ST01 (for EV2D) - ENABLE1 (for EV2DU)	Digital input ST0-1; channel 1 of ENABLE / DISABLE	<ul style="list-style-type: none"> ENABLE – 24 V DC DISABLE – 0 V <p>Digital input according to IEC 61131-2 Type 2, with electrical isolation, OSSD-capable *</p> <ul style="list-style-type: none"> “0” = -3 to 5 V DC “1” = 11 to 30 V DC Sampling time of 1 ms (maximum 4 ms) Optical isolation RL_{min} = 2.8 kΩ
	2	N.C.	Emergency RS232-communication (USART-Tx)	Not contacted in normal circumstances
	3	GND	Digital ground; reference potential for inputs/outputs (U _{in} , U _{out})	
	4	N.C.	Emergency RS232 communication (USART-Rx)	Not contacted in normal circumstances
	5	- ST02 (for EV2D) - ENABLE2 (for EV2DU)	Digital input ST0-1; channel 2 of ENABLE / DISABLE	<ul style="list-style-type: none"> ENABLE – 24 V DC DISABLE – 0 V <ul style="list-style-type: none"> “0” = -3 to 5 V DC “1” = 11 to 30 V DC Sampling time of 1 ms (maximum 4 ms) Optical isolation RL_{min} = 2.8 kΩ

Terminal strip	Pin	Name	Description	Specification
<div style="border: 1px solid gray; padding: 5px;"> <p>📘 INFORMATION</p> <p>The STO inputs are positioned in a manner that enables the connection of safety switching devices with test pauses (OSSD signals). The signals are evaluated and the test interval must be parametrised in accordance with operating instructions EV2D-x-G / EV2D-x-EW.</p> <p>Classification as binary 24 V interface with keying/sinking: Sink C0 – Source C0, D0</p> </div>				
1-X5 PIN 1 PIN 2 PIN 3 PIN 4 PIN 5	1	V _{cc}	Power supply for output stages Y1-Y2	<ul style="list-style-type: none"> ▪ U = 24 V DC +20% / -20% ▪ I_{max} = 5 A
	2	Y1_M	Return line of solenoid Y1	<ul style="list-style-type: none"> ▪ U = 24 V (PWM) ▪ I_{max} = 4 A
	3	Y1_P	Supply line to solenoid Y1	
	4	Y2_P	Supply line to solenoid Y2	
	5	Y2_M	Return line of solenoid Y2	
1-X6 PIN 1 PIN 2 PIN 3 PIN 4 PIN 5	1	V _{cc}	Power supply for electronics	<ul style="list-style-type: none"> ▪ U = 24 V DC +20% / -15% ▪ I_{max} = 500 mA
	2	NO FAULT	Digital output signal no fault (NO FAULT)	<ul style="list-style-type: none"> ▪ U = 24 V DC (V_{cc} – xxxx) ▪ I_{max} = 200 mA <p>Digital short-circuit-proof output according to IEC 61131-2 specified.</p> <ul style="list-style-type: none"> – Switching of inductive load up to 300 mJ – 24 V DC / 200 mA ohmic load – 24 V DC / 400 mJ inductive load – Switching delay is the result of the operating mode settings plus 1 to 4 ms maximum reaction time. – Maximum switching frequency: 1 kHz – The output is connected to V_{cc}.
	3	GND	Ground level for analogue and digital in/out	Ground, system reference level 0 V
	4	GND		
	5	GND		
2-X1 PIN 5 PIN 4 PIN 3 PIN 2 PIN 1	1	N.C.	Not contacted	
	2	N.C.		
	3	GND	Digital ground; reference potential for inputs/outputs (U _{in} , U _{out})	
	4	P2	Analogue actual value of sensor	<ul style="list-style-type: none"> ▪ 4 to 20 mA ▪ Load = 100 Ω
	5	V _{cc}	Supply voltage for sensor	<ul style="list-style-type: none"> ▪ U = 24 V DC ▪ I_{max} = 50 mA <p>Resolution of the analogue input signals is carried out with 12 bits</p>
2-X2	1	N.C.	Not contacted	
	2	N.C.		
	3	GND	Digital ground; reference potential for inputs/outputs (U _{in} , U _{out})	
	4	P1	Analogue actual value of sensor	<ul style="list-style-type: none"> ▪ 4 to 20 mA ▪ Load = 100 Ω

Terminal strip	Pin	Name	Description	Specification
	5	V _{cc}	Supply voltage for sensor	<ul style="list-style-type: none"> U = 24 V DC I_{max} = 50 mA
				Resolution of the analogue input signals is carried out with 12 bits
	1	S4_M	Analogue setpoint for 2-X5 (minus-level in case of differential input)	<ul style="list-style-type: none"> -10 V to +10 V analogue setpoint R_{in} > 10 kΩ
	2	S4_P	Analogue setpoint for 2-X5 (plus-level in case of differential input)	See Pin 1
	3	GND	Digital ground; reference potential for inputs/outputs (U _{in} , U _{out})	
	4	S3_M	Analogue setpoint for 2-X5 (minus-level in case of differential input)	See Pin 1
	5	S3_P	Analogue setpoint for 2-X5 (plus-level in case of differential input)	
				Resolution of the analogue input signals is carried out with 12 bits
	1	V _{cc}	Power supply for output stages Y3-Y4	<ul style="list-style-type: none"> U = 24 V DC +20% / -10% I_{max} = 5 A, residual ripple < 10%
	2	Y3_M.	Return line of solenoid Y3	<ul style="list-style-type: none"> U = 24 V (PWM) I_{max} = 4 A
	3	Y3_P	Supply line to solenoid Y3	
	4	Y4_P	Supply line to solenoid Y4	
	5	Y4_M	Return line of solenoid Y4	
	1	V _{cc}	Power supply for output stages Y5-Y6	<ul style="list-style-type: none"> U = 24 V DC +20% / -10% I_{max} = 5 A, residual ripple < 10%
	2	Y5_M.	Return line of solenoid Y5	<ul style="list-style-type: none"> U = 24 V (PWM) I_{max} = 4 A
	3	Y5_P	Supply line to solenoid Y5	
	4	Y6_P	Supply line to solenoid Y6	
	5	Y6_M	Return line of solenoid Y6	
	1	N.C.	Not contacted	
	2	N.C.	Not contacted	
	3	GND	Ground level for analogue and digital in / ground, system reference level 0 V out	
	4	GND		
	5	GND		

* OSSD (Output Signal Switching Device) tested semiconductor outputs. The digital inputs correspond to a sink of type C / class 0 according to the ZVEI policy paper "Klassifizierung binärer 24 V-Schnittstellen mit Testung im Bereich der Funktionalen Sicherheit" (Classification of binary 24 V interfaces with test in the area of functional safety) with a test pulse duration of max. 3 ms and a minimum test pulse interval of T 100 ms. The input resistance is ≈ 2.8 kΩ. The input capacitance is ≈ 100 nF.

5.1.3 Connecting the terminal strips

! NOTICE

Material damage due to use of incorrect connection sockets

Use of connection sockets other than those in the EV2D plug set (6217 8044-00) from HAWE can lead to a cable fire.

- ▶ Only use the connection sockets specified in the instructions.
- ▶ Contact HAWE before using other plug connections

! NOTICE

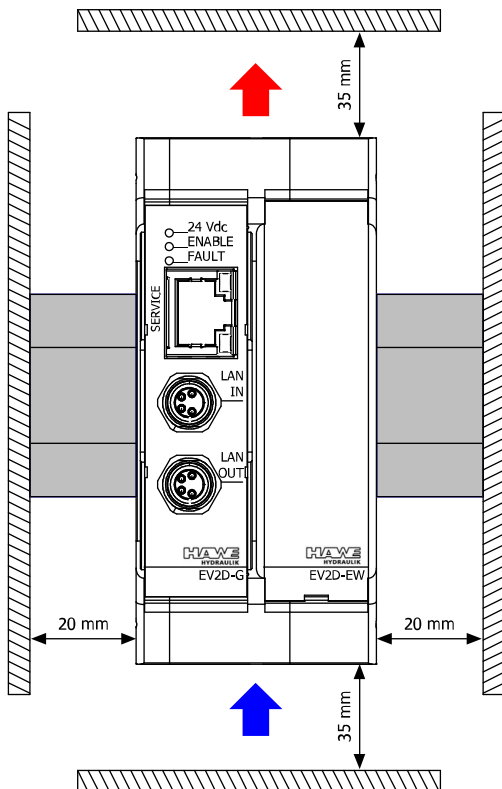
Material damage due to EMC disturbances

Electromagnetic waves cause malfunctions of electrical or electronic equipment.

To prevent this:

- ▶ Twist and shield lines.
- ▶ Route intersections at a right angle.
- ▶ Place shield on one side and close to the control system on the ground potential.
- ▶ Route control and power cables separately.
- ▶ Leave a 10 to 20 cm gap between the control and power cables.
- ▶ Separate shields for analog and digital control lines.

1. Secure the unit against being switched on unintentionally.
2. Ensure that nobody is in the danger area.
3. Position the machine in the switch cabinet upright on the support rail such that the ventilation slots remain free.

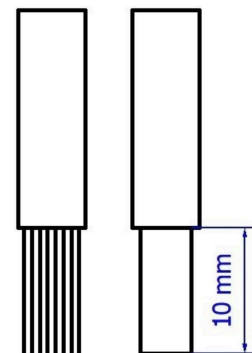


4. When connecting the flexes, observe the assignment of the terminal strips.

5. Connection of terminal strips:

- a) Strip the line by 10 mm.
- b) Line type and cross-section:

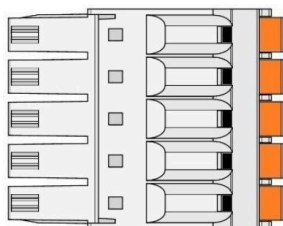
- Conductor cross-section, rigid: 0.2 mm² to 1.5 mm²
 - Conductor cross-section, flexible: 0.2 mm² to 1.5 mm²
 - Conductor cross-section, AWG/kcmil: 24 to 16
 - Conductor cross-section, flexible with wire end ferrule without plastic sleeve: 0.2 mm² to 1.5 mm²
 - Conductor cross-section, flexible with wire end ferrule with plastic sleeve: 0.2 mm² to 0.75 mm²
- Maximum line length: 5 m at 0.2 mm², 20 m at 0.75 mm²



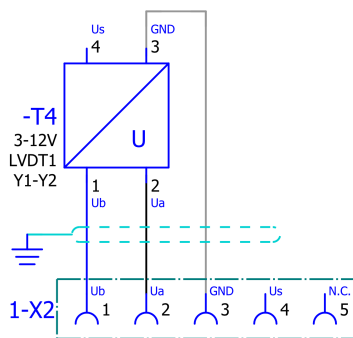
i INFORMATION

The cable that is connected to the field wiring terminals must be designed to withstand at least 75°C during operation.

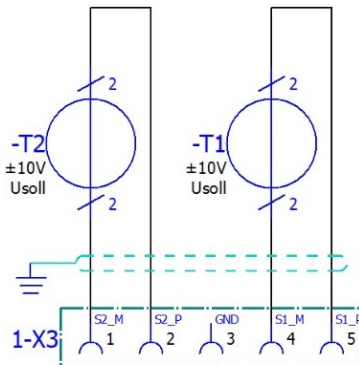
- c) Press on the orange release button with a screwdriver (A) or similar.
- d) Insert the flex (B) into the round opening such that no individual wires can be seen from outside.
- e) Remove the screwdriver (A) and check whether the flex (B) is firmly inserted. Make sure that it is the flex and not the insulation that is being gripped.



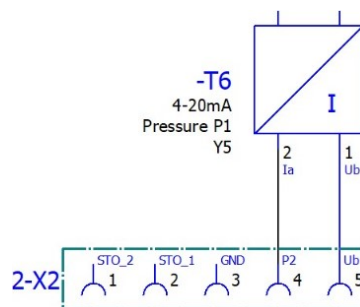
6. Connection of the analog inputs with standard signal transmitter analog LVDT:



Connection of LVDT analog



Connection of setpoints CNC

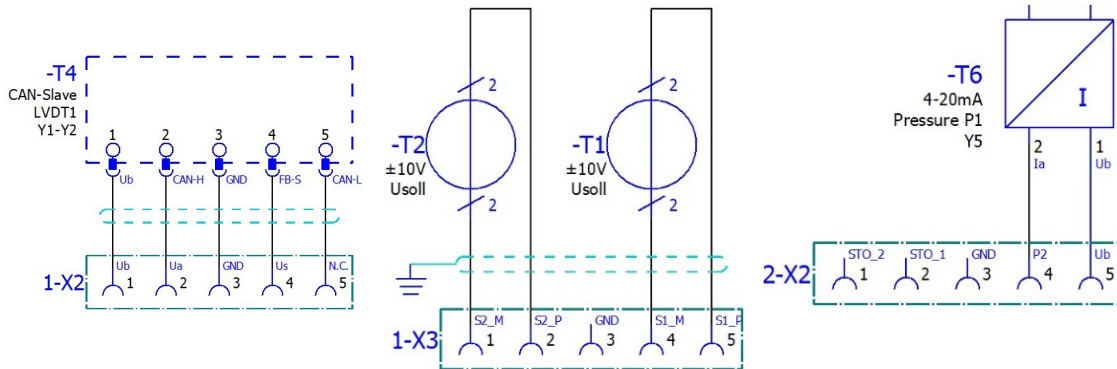


Connection of 4-20mA analog

i INFORMATION

The electromagnetic shielding must be connected to the ground potential close to the controls and over a large area.

7. Connection of the **analog inputs with alternative signal generator CAN LVDT:**



Connection of LVDT CAN

Connection of setpoints CNC

Connection of 4-20mA analog

i INFORMATION

The electromagnetic shielding must be connected to the ground potential close to the controls and over a large area. CAN line should contain a twisted pair cable (e.g. UNITRONIC BUS LD 3x2x0.22).

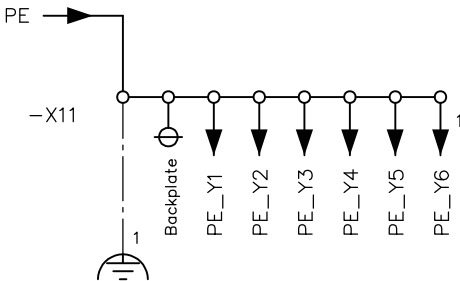
8. Ensure selectivity in the 24 V DC current distribution via a radial system.

9. To secure the selectivity, take the following values into account:

- ▶ Supply line for supplying the electronics: max. T2A
- ▶ Supply line to the load circuits: max. T4A per load circuit

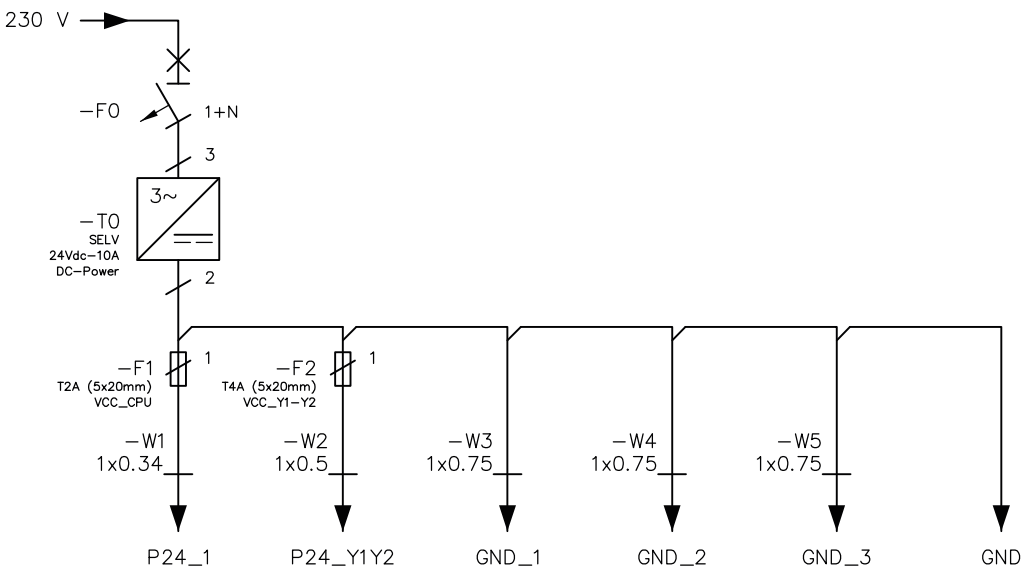
6 Electric circuit diagrams / E-plan

6.1 Potential equalisation and shielding against electromagnetic interference

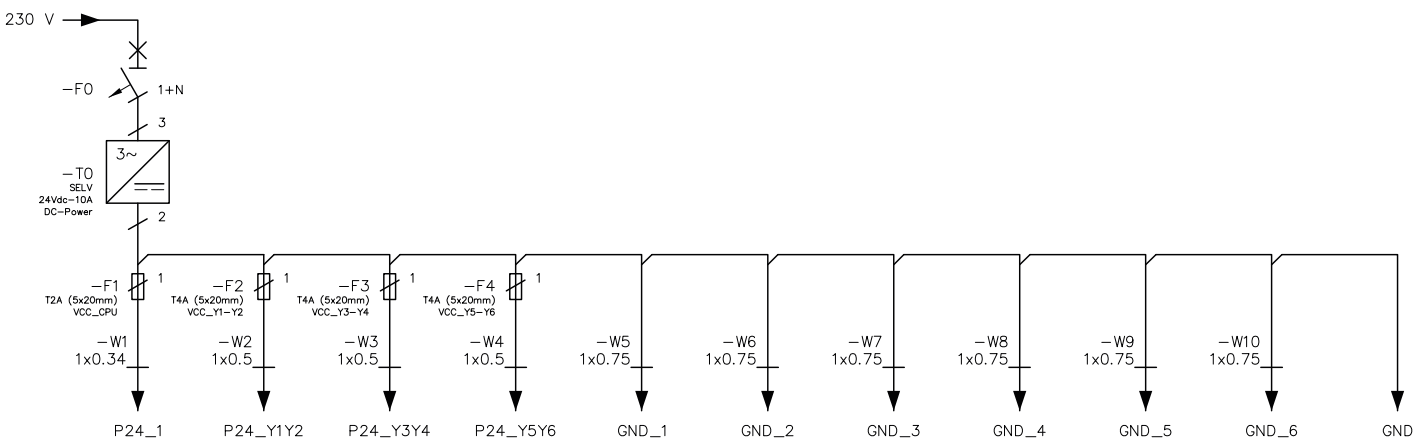


6.2 24 V distribution and safeguarding of supply line

EV2D-...-G/EV2DU-...-G



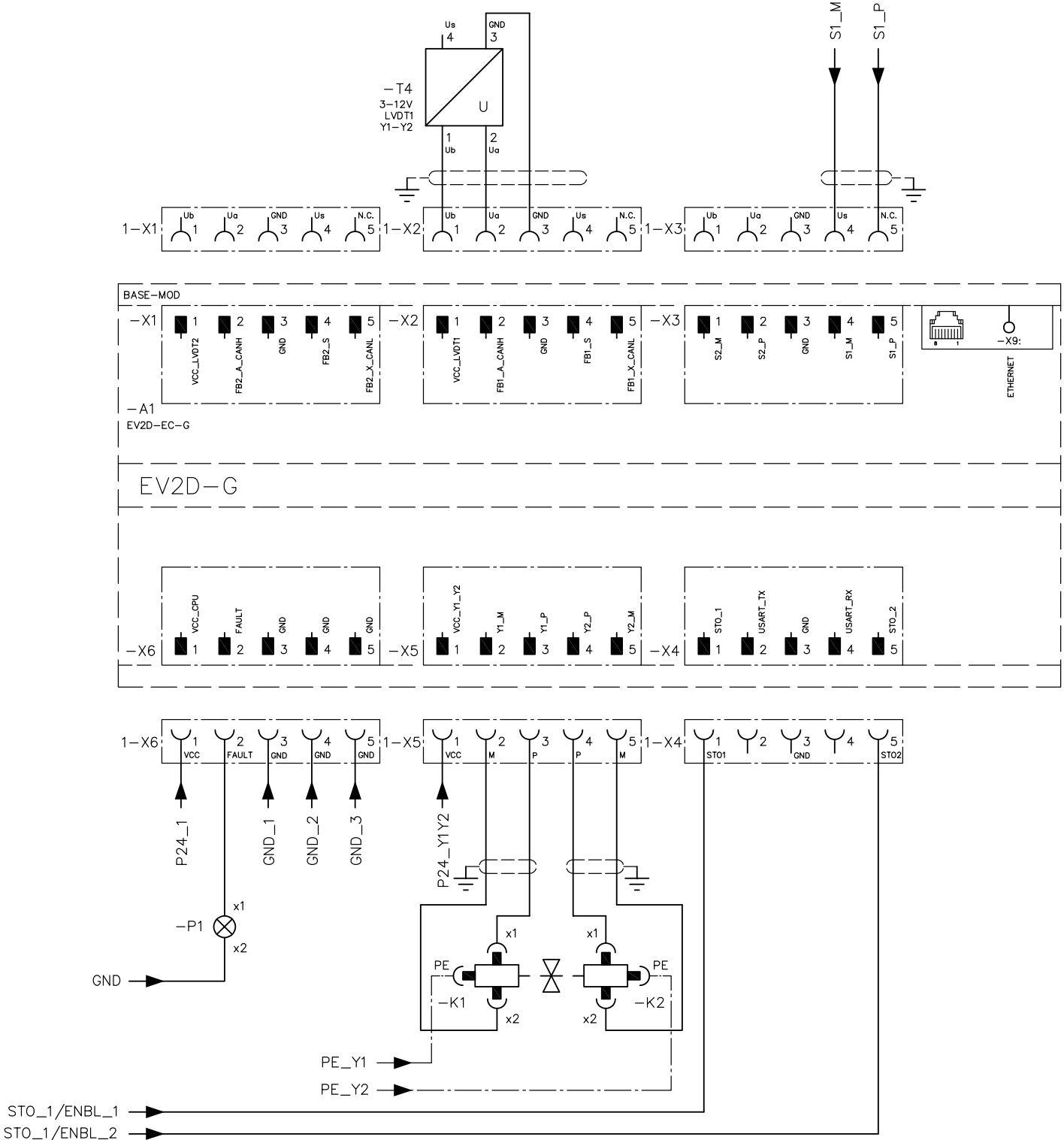
EV2D-...-EW/EV2DU-...-EW



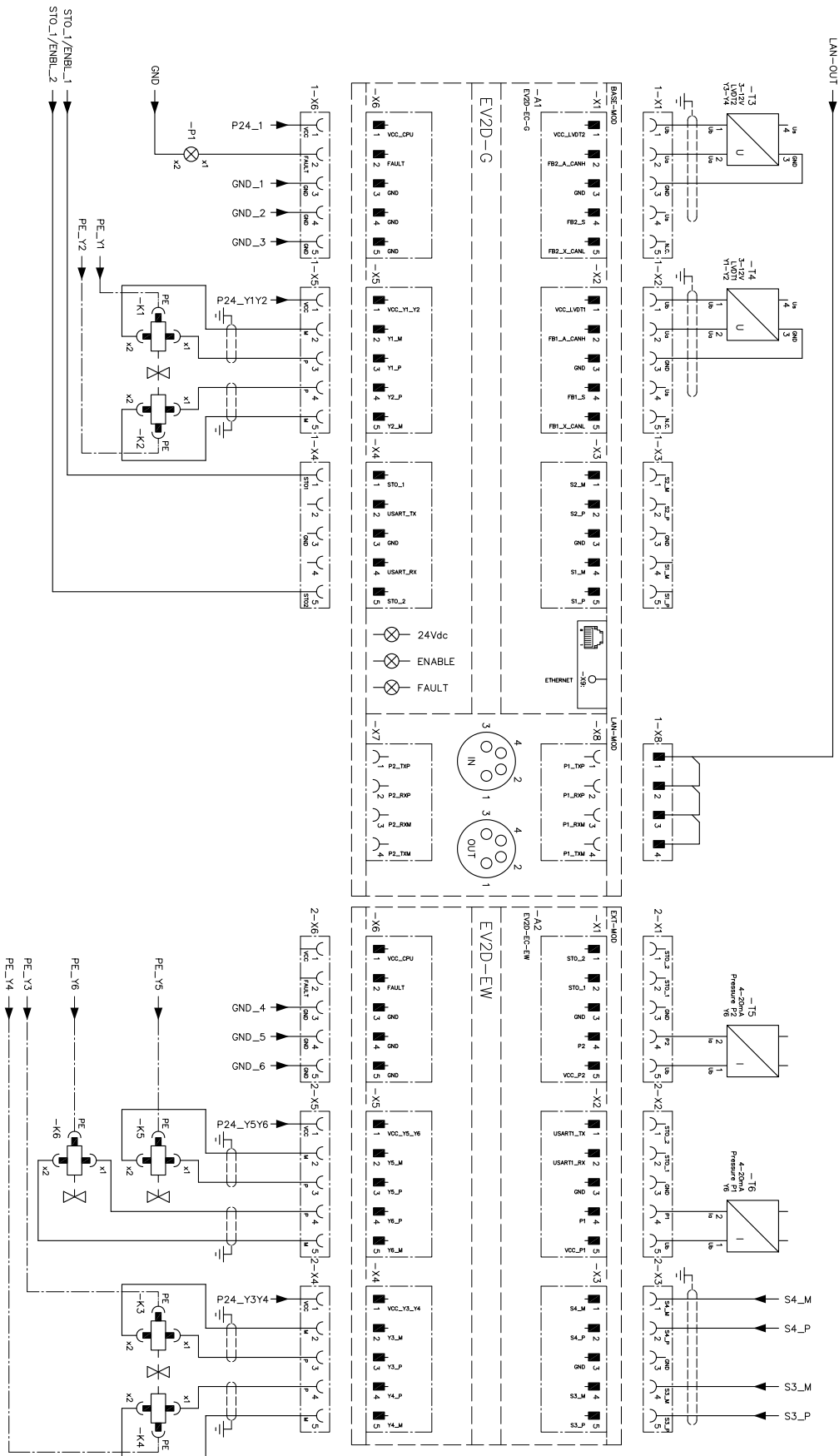
6.3 Circuit example

6.3.1 Connection for EV2D with standard signal transmitter analogue LVDT (example)

Basic version with standard signal transmitter analogue LVDT (EV2D-A-G/EV2DU-A-G)

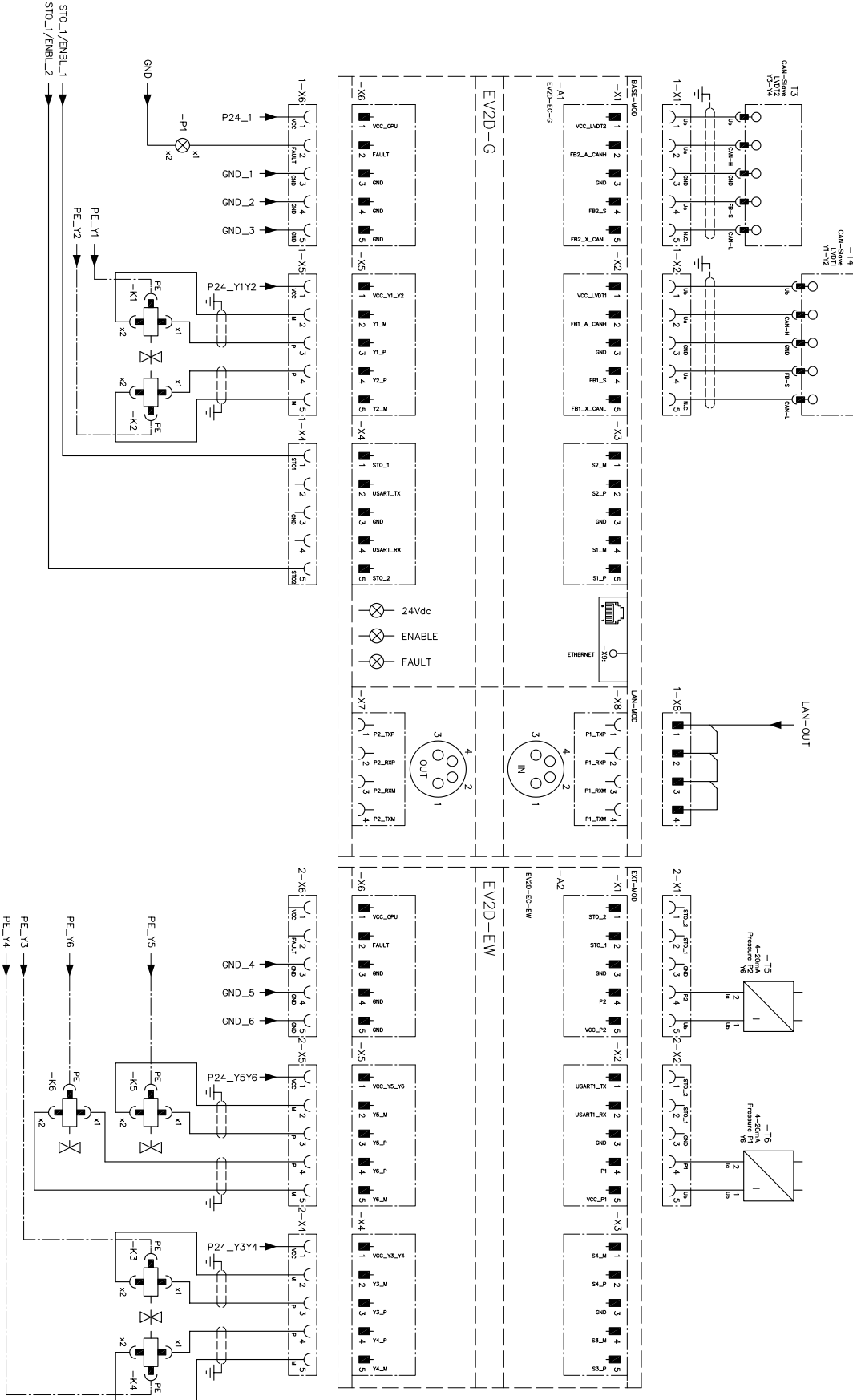


Extended version with standard signal transmitter analogue LVDT (EV2D-A-EW/EV2DU-A-EW)



6.3.2 Extended version with standard signal transmitter analogue LVDT

Extended version with alternative signal transmitter CAN LVDT (EV2D-...-EW/EV2DU-...-EW)



References

Additional versions

- Ventilsteuerung Typ CAN-IO 14+: D 7845-IO 14
- Proportional amplifier type EV2S: D 7818/1
- Proportional amplifier type EV1M3: D 7831/2
- Proportional amplifier type EV1D: D 7831 D

Application

- Proportional directional control valve type PIH (size 6): D 6418
- Proportional directional valve type PIH (size 10): D 6419
- Proportional directional control valve type POL, PRL, PIL (size 6): D 6394
- Proportional directional control valve type POL, PRL, PIL (size 10): D 6395

