

PROFINET Gateway for EnDat encoders

- Functionality according to encoder profile 3.162 v.4.2
- Compact and robust design
- IP 65 ingress protection



Electrical specification

Power supply	9-36 Vdc
Polarity protected	Yes
Current consumption	Typical 120 mA at 24 Vdc, Max. 220 mA at 24 Vdc
Output interface	PROFINET IO, Class 3 and 4 (Ethernet)
Supported profile	Encoder profile PNO 3.162 v.4.2
Addressing	MAC address/ IP-Address/ Device name
Supported encoders	≤25 bit singleturn rotary encoders; ≤37 bit multiturn rotary encoders
Baud rate	100 Mbit/s
Supported encoder interface	EnDat 2.1 (2.2)
Encoder power supply	5Vdc ±5%
Max output current to EnDat encoder	400 mA
Max cable length to encoder	40 m
Supported functions	PRESET, Scaling, Code sequence, Isosynchronous mode, I&M, Firmware upgrade

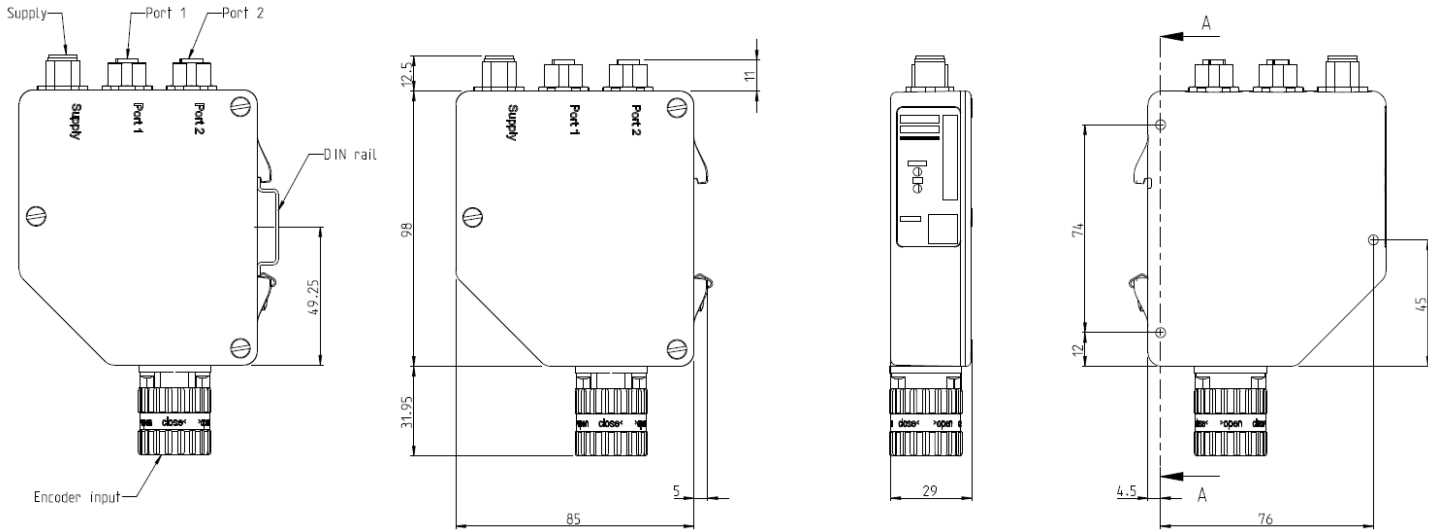
Mechanical specification

Material housing	Aluminium
Weight	Appr. 400 g
Vibration (10-2000 Hz)	<100 m/s ² according to IEC 60068-2-6
Protection class	IP 65 according to IEC 60529
Temperature, (operating, storage)	-40 °C...+80 °C
LED indication	Module, Bus
Connection, PROFINET	3x M12 connectors (2x 4pin female D-coded M12 ; 1x 4pin male A-coded M12)
Connection EnDat encoder	1x 17pin female M23 connector
Mechanical mounting	DIN -rail or screw

PROFINET Gateway

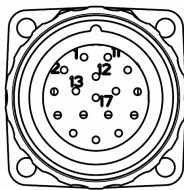
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Dimensions



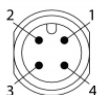
Connection EnDat encoder

Function	Pin
Sensor +E V	1
Sensor 0 V	4
+E Volt	7
0 Volt	10
Clock	8
Clock\	9
Data	14
Data\	17



PROFINET and supply connection

Function	Port1	Port2	Supply
TX+	1	1	-
RX+	2	2	-
TX-	3	3	-
RX-	4	4	-
+E V power source A			1
+E V power source B			2
0 Volt			3
0 Volt			4



Ordering information

Part number

1118541-01

15 June 2020. Specifications can be changed without prior notice.