

# CANopen Gateway



## CAN Gateway for EnDat encoders

- CAN interface; CANopen and DeviceNet
- Gateway can be used with all EnDat encoders within the 600 series
- Integrated T-coupling and bus termination



## Electrical specification

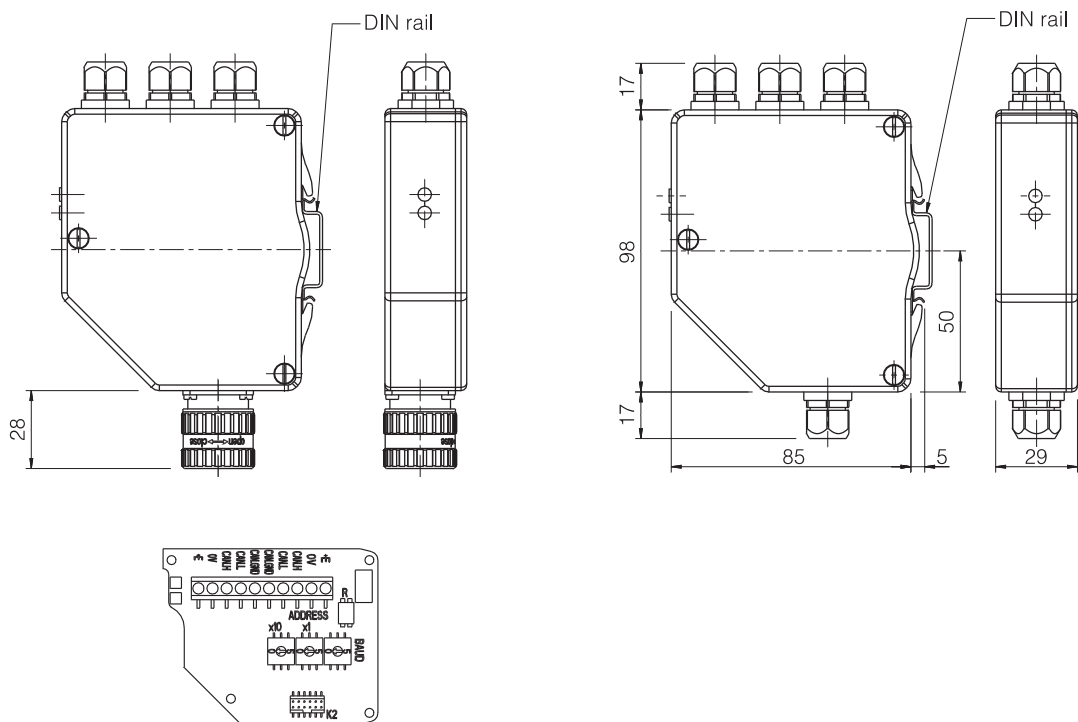
<b>Supply voltage +EV</b>	<b>9-30 Vdc</b>
Polarity protected	Yes
Current consumption incl. multiturn encoder	100 mA @ 24 V
Current consumption, max	170 mA @ 24 V
Startup delay	600 ms
Supported encoders	13 bit singleturn rotary encoder, 25 bit multiturn rotary encoder
<b>Encoder connection</b>	<b>EnDat</b>
Power supply	5 Vdc $\pm$ 5%
Clock frequency	500 kHz
Cable length, max	40 m
<b>Output</b>	<b>CANopen. Support of CAN spec. 2.0 A and B</b>
Baudrate	10 kb/s - 1 Mb/s
Baudrate setting, Address setting	DIP switch or CANopen object
Cable length	100 @ 500 kb/s
<b>Output</b>	<b>DeviceNet, Position Sensor Object, Class code 23 h</b>
Baudrate	125 kb/s, 250 kb/s, 500 kb/s
Baudrate setting	Automatic detection
Address setting	MAC id via DIP switch
Cable length	500 m @ 125 kb/s
Update frequency	> 2 kHz
Delay	< 0,5 ms

## Mechanical specification

Housing	Aluminium
Weight	Approx. 400 g
Protection class	IP 65 according to IEC 60529
Temperature, operating	-30 °C .. +85 °C
Temperature, storage	-40 °C .. +85 °C
LED indication	Power and Bus
Connection	Screw terminal, integrated T coupling

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## Dimensions



## Accessories

CANopen EDS file	Downloadable at <a href="http://www.leinelinde.com">www.leinelinde.com</a>
DeviceNet EDS file	Downloadable at <a href="http://www.leinelinde.com">www.leinelinde.com</a>
Cable to encoder 2 m	Part no. 00201045
Cable to encoder 3 m	Part no. 00201057
Cable to encoder 20 m	Part no. 00201056
Cable to encoder free length	Part no. 01209050
Encoders	See datasheet for EnDat encoders

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## Connection



### EnDat 17 pin EML

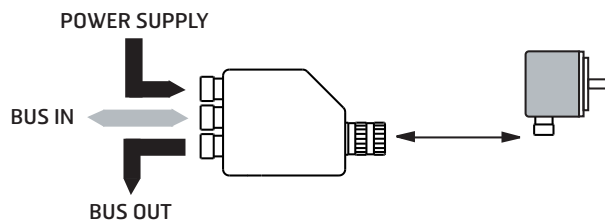
Function	Pin
Sensor + E Volt	1
Sensor 0 Volt	4
+ 5 Volt	7
0 Volt	10
Clock	8
Clock\	9
Data	14
Data\	17

### CAN Terminal

Function	Pin
+ E Volt	1
0 Volt	2
CAN_H	3
CAN_L	4
CAN_GND	5
CAN_GND	6
CAN_L	7
CAN_H	8
0 Volt	9
+E Volt	10

# CANopen Gateway

## CAN Gateway



## Advantages of the Gateway concept

1. The Gateway allows the use of a small and robust encoder.
2. Cost effective exchange of encoder (no need to change the Gateway).
3. Reduction of Bus-cabling (only one cable between Gateway and encoder is needed).
4. Flexible choice of encoders as the same Gateway can be used with different encoders.
5. Advanced diagnostics integrated in the basic encoders, together with the sensing parts.
6. Allows operation of encoder in high temperature and hard environmental conditions.

## Ordering information

Available models	Part no.
CANopen Gateway with connector	01300230
CANopen Gateway with 2 m cable and connector	01300235
DeviceNet Gateway with connector	01300240
DeviceNet Gateway with 2 m cable and connector	01300245