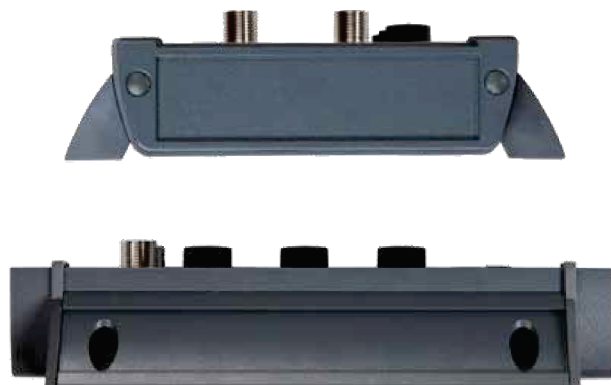




# ENC1

*Quad channel quadrature interface*

- ✓ 4 input channels
- ✓ Seperate reference per channel
- ✓ Supports PNP, NPN and push-pull encoders
- ✓ No rewiring needed
- ✓ Software configurable



The ENC1 is a four channel quadrature encoder interface for machine guidance applications. It is fully software configurable and can be used with most standard PNP, NPN and push-pull encoders or inductive sensors.

Its four input channels each have an 8 pin M12 connector that can be used to connect a quadrature and reference signal. This signal can come from an encoder, hydraulic flow meter or inductive sensors. Each channel is designed so that it does not have to be configured whether a NPN, PNP or push pull signal is connected. You are even able to connect for example a NPN encoder and use PNP inductive sensor for referencing. Y-cables are available to easily wire up complex configurations. Power is available on every channel so encoders can be easily powered from the ENC1. The ENC1 is fully software configurable and allows setting of ID, update rates, output modes etc. To not load the CAN bus too heavily you have the option of setting the output mode in continuous, polling or on change mode.

#### Technical specifications :

- **Number of channels:** 4
- **Supported encoders:** NPN / PNP and PUSH-PULL (over power supply range)
- **Referencing:** Every channel has own reference inputs
- **Encoder power:** Can draw power from ENC1 (max 300 mA)
- **Max update rate:** 30 Hz (software programmable down to 1 Hz)
- **Data interface:** CAN (for protocol information please refer to the protocol documentation)
- **Housing material:** Coated aluminium
- **Weight:** Approx 780 g
- **Size:** 1234 x 154 x 47 mm (L x w x h)
- **IP rating:** IP 66

#### Power characteristics :

- **Power supply :** 10-30 VDC (can run on 12 V and 24 V systems)
- **Power consumption :** < 2 Watt

#### Operating temperature :

- **From -20°C to +60°C**