

Encoder Heidenhain EnDat ECN 1313

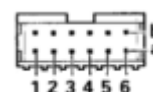
The encoder ECN 1313 is an absolute-type encoder with EnDat interface. It is a bidirectional digital communication interface, able to read and update the information contained in the encoder.

Technical data	Line counts	2048
	Power supply	5 V ± 5%
	Current consumption (without load)	≤ 160 mA

The encoder must be connected to the inverter according to the specification in Table 7. Cable shield must be connected to housing. The feeding of the sensor is connected inside to the main feeding.

Table 7. Match between connector/color of the wires of pulse generator ECN 1313 with signals transmitted by the inverter

Signal	Encoder pin	Signal	Encoder pin
Up sensor	6a	B +	4a
Up	1b	B -	3b
0 V Un	4b	DATA	6b
0 V	3a	\overline{DATA}	1a
A+	2a	CLOCK	2b
A-	5b	\overline{CLOCK}	5a



Mounting Instructions

1. **SW3/SW4**

ID 332 201-xx
ID 332 202-xx

Kabel einclicken und auf Anschlag schieben.
Click cable into place, and push it in as far as possible.
Encliqueter le câble et le pousser jusqu'en butée.
Fissare il cavo e spingerlo fino in battuta.
Doblar el cable y deslizarlo hasta el tope.

2. **M5x50 DIN 6912**
SW4

$M_d = 5 + 0.5 \text{ Nm}$

3. **SW2**

$M_d = 1.25 - 0.2 \text{ Nm}$

4. **M6x70**

5. **M10**

$M_d = 5 + 0.5 \text{ Nm}$

Demontage in umgekehrter Reihenfolge
Disassembly in reverse order
Démontage dans l'ordre inverse
Smontaggio in sequenza inversa
Desmontaje en orden contrario

Zwei Möglichkeiten zum Abdrücken während der Demontage des Drehgebers
Two ways of pressing the encoder out during dismounting.
Deux possibilités de démontage du capteur rotatif
Les deux possibilités pour extraire pendant le démontage du codeur
Dos posibilidades de aflojar durante el desmontaje del encoder

a)

1. **M5**

2. **M6x70**

b)

1. **M10**

ca. 360° - 720°

2. **M10**

Refer to Heidenhain catalogue:
www.heidenhain.it