

Encoder Heidenhain EnDat ECN 413

The encoder ECN 413 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	$5\text{ V} \pm 5\%$
	Current consumption (without load)	$\leq 160\text{ mA}$

The encoder must be connected to the inverter according to the specification in Table 1. The free items must not be used, but must be insulated as well. Cable shield must be connected to housing. The feeding of the sensor is connected inside to the main feeding.

Table 1. Match between connector/color of the wires of pulse generator ECN 413 with signals transmitted by the inverter

Signal	Colour	Signal	Colour
Up sensor	Blue	0 V Un	White/green
n.c.	Black	B +	Blue/Black
n.c.	Red	B -	Red/black
0 V	White	DATA	Grey
n.c.	Green	A +	Green/black
n.c.	Brown	A -	yellow/black
Up	Brown/green	$\overline{\text{DATA}}$	Pink
CLOCK	Violet	$\overline{\text{CLOCK}}$	Yellow

Mounting Instructions

<p>Montage Assembly Montage Montaggio Montaje</p> <p>SW3/4</p> <p>2.</p> <p>1.</p> <p>3.</p> <p>M5 DIN 6912 $M_d = 5 + 0.5\text{ Nm}$</p> <p>ID 350 378-14</p> <p>SW4</p> <p>4.</p> <p>5.</p> <p>$M_d = 5 + 0.5\text{ Nm}$</p> <p>$M_d = 1.25 - 0.2\text{ Nm}$</p>	<p>Demontage in umgekehrter Reihenfolge Disassembly in reverse order Demontage dans l'ordre inverse Smontaggio in sequenza inversa Desmontaje en orden contrario</p> <p>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 Due possibilità di smontaggio dell'encoder Dos posibilidades de aflojar durante el desmontaje del encoder</p> <p>a) M5</p> <p>b) M6 x 70</p> <p>a) 360° ... 720°</p> <p>b) M10</p> <p style="text-align: right;"><i>Refer to Heidenhain catalogue:</i></p> <p style="text-align: right;"><u>www.heidenhain.it</u></p>
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