



1 2 3 4 5 6

b

a

رنگ سیم (کابل انکودر) هایدن هاین ۱۳۱۳

رنگ سیم فابریک	نوع پالس	شماره پین انکودر
صورتی	DATA ⁻	1a
قهوه ای /سبز	Power	1b
سبز /مشکی	A+	2a
بنفش	CLOCK ⁺	2b
سفید	0V	3a
قرمز /سیاه	B-	3b
آبی /سیاه	B+	4a
سفید /سبز	0V	4b
زرد	CLOCK ⁻	5a
زرد /سیاه	A-	5b
آبی	Power	6a
طوسی	DATA ⁺	6b



Electrical connection

Pin layouts

ECN 1313 pin layout

17-pin coupling or flange socket M23						12-pin PCB connector							
Voltage supply					Incremental signals ¹⁾					Absolute position values			
	7	1	10	4	11	15	16	12	13	14	17	8	9
	1b	6a	4b	3a	/	2a	5b	4a	3b	6b	1a	2b	5a
	U _P	Sensor U _P	0V	Sensor 0V	Internal shield	A+	A-	B+	B-	DATA	DATA	CLOCK	CLOCK
	Brown/ Green	Blue	White/ Green	White	/	Green/ Black	Yellow/ Black	Blue/ Black	Red/ Black	Gray	Pink	Violet	Yellow

Other signals	
5	6
	/
	/
	Brown ²⁾ White ²⁾

Cable shield connected to housing; **U_P** = power supply voltage; **T** = Temperature
Sensor: The sensor line is connected in the encoder with the corresponding power line.
 Vacant pins or wires must not be used!

- 1) Only with ordering designations EnDat 01 and EnDat 02
- 2) Only with output cables inside the motor
- 3) Connections for external temperature sensor; connection in the M23 flange socket
- 4) **ECI 1118 EnDat 22:** Vacant
- 5) Only EnDat 22, except ECI 1118
- 6) White with M23 flange socket / Green with M12 flange socket

ECN 1325 pin layout

8-pin coupling or flange socket M12					9-pin flange socket M23				4-pin PCB connector				12-pin PCB connector			
Voltage supply					Absolute position values				Other signals ³⁾							
	8	2	5	1	3	4	7	6	/	/	/	/				
	3	7	4	8	5	6	1	2	/	/	/	/				
	/	/	/	/	/	/	/	/	1a	1b	/	/				
	1b	6a	4b	3a	6b	1a	2b	5a	/	/	/	/				
	U _P	Sensor U _P ⁴⁾	0V	Sensor 0V ⁴⁾	DATA	DATA	CLOCK	CLOCK	T ⁵⁾	T ⁻⁵⁾	T ^{3) 5)}	T ^{-3) 5)}				
	Brown/ Green	Blue	White/ Green	White	Gray	Pink	Violet	Yellow	Brown	Green	Brown	⁶⁾				