



- Overall length : 63 mm for single turn, 73 mm for multi turn including bus cover
- All current fieldbus interfaces are available
- The complete bus specific electronics is integrated in the connection cover
- Versions: profibus DP, DeviceNet, CAN, CANopen and Interbus
- Option: Indication "tico"

TECHNICAL DATA mechanical

Housing diameter	58 mm
Protection shaft input	IP 64 or IP 67
Protection housing	IP 67
Flange	Synchro flange, clamping flange, spring plate
Shaft diameter	Full shaft 6 mm, 10 mm; hollow shaft 10 mm, 12 mm
Max. speed	Continuous: 10,000 min ⁻¹ , short term: 12,000 min ⁻¹
Starting torque	≤ 0.01 Nm
Inertia of rotor	3.8 x 10 ⁻⁶ kgm ²
Spring tether (hollow shaft)	
Tolerance axial	± 1.5 mm
Tolerance radial	± 0.2 mm
Max. shaft load	axial 40 N, radial 60 N Ø 6 mm axial 60 N (13 lbs), radial 110 N (24 lbs) Ø 10 mm axial 107 N (24 lbs), radial 160 N (35 lbs)
Bearing life	1 x 10 ¹⁰ revolutions (typ.) at 35% of full rated shaft load 1 x 10 ⁹ revolutions (typ.) at 75% of full rated shaft load 1 x 10 ⁸ revolutions (typ.) at 100% of full rated shaft load For example 30,000 h at 6,000 RPM
Shock resistance DIN EN 60068-2-27	1,000 m/s ² (6 ms)
Vibration resistance DIN EN 60068-2-6	100 m/s ² (10 ... 2,000 Hz)
Operating temperature	- 40 ... 85 °C
Storage temperature	- 40 ... 85 °C
Weight ST / MT	approx. 350 g / 400 g

TECHNICAL DATA electrical

Supply voltage	10-30 V
Intrinsic current consumption ST/MT	200 mA / 250 mA
Interface	CAN-Highspeed according to ISO / DIS 11898, CAN specification 2.0 B (11 and 29 Bit Identifier)
Profile	Manufacturer specific profile, similar to encoder profile layout DeviceNet
Programmable	According to Class 2: Resolution, Preset, Direction
Output code	Binary
Transfer mode	Poll mode (only on request), Change of State (automatically when values change), cyclical with preset clock timer
Baud rate	adjustable 125, 250, 500 KBaud
Resolution single turn	10-14 Bit, depend. on version
Resolution multi turn	12 Bit
Connections	Bus cover als T-manifold

RECOMMENDED DATA TRANSFER Lead type A

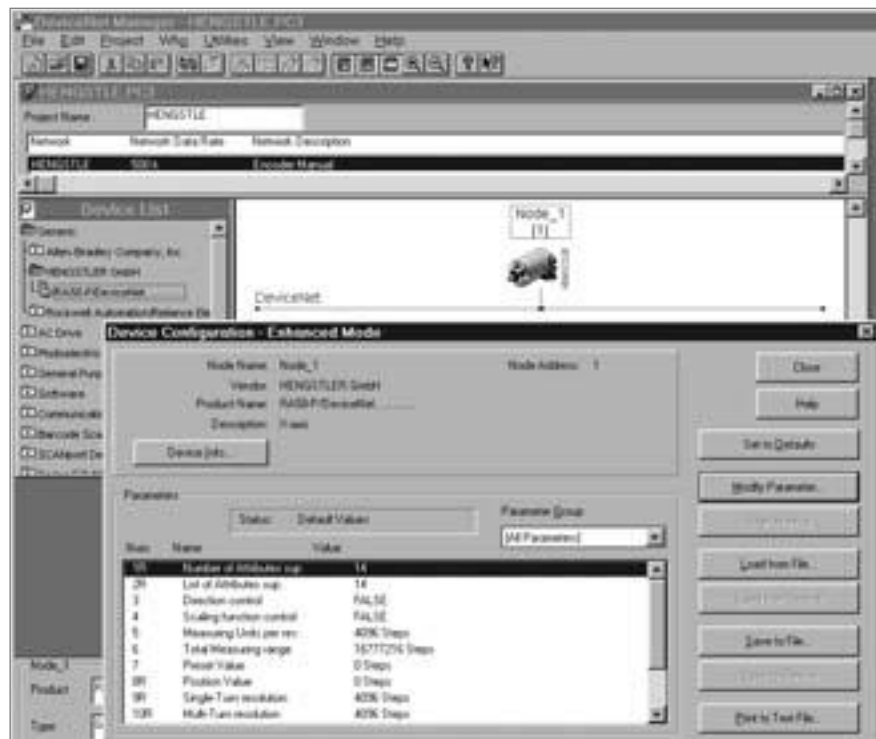
Shaft resistance	135...165 Ω (3...20MHz)
Operating capacity	< 30pF/m
Loop impedance	< 110 Ω/km
Strand diameter	> 0.64 mm
Strand cross section	> 0.34 mm ²

TRANSFER SPEEDS

Segment length	kbit/s
500 m	125
250 m	250
100 m	500

START-UP

The encoder can be easily and quickly installed and programmed with the EDS file.



PIN ASSIGNMENT DeviceNet Bus Cover

Terminals	
Pin	Signal
1	UB in (10...30V)
2	OV in
3	CAN-L
4	CAN-H
5	Drain
6	Drain
7	CAN-H
8	CAN-L

ACCESSORIES

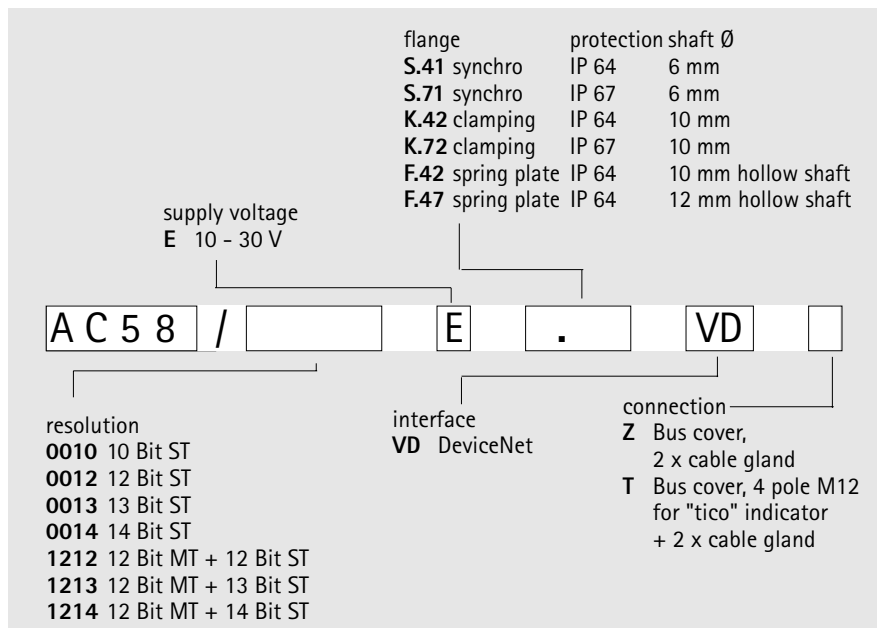
	Art.No.
Synchro flange clamping eccentric	0 070 655
Diaphragm coupling (hub 6/6 mm)	3 520 081
Diaphragm coupling (hub 10/10 mm)	3 520 088
Technical Manual DeviceNet, German	Internet, www.hengstler.de
Technical Manual DeviceNet, English	Internet, www.hengstler.com
Disc with EDS file for DeviceNet	Internet, www.hengstler.com

	Art.No.
Diagnostic kit 230 VAC for encoder with bus cover, incl. ACURO soft and "tico"-indicator (suited for supply voltage E and connection G and H)	1 565 070
"tico" indicator	0 731 205
Connection cable, bus cover (T) to "tico", 1.5 m	3 539 575

DIMENSIONAL DRAWINGS

see chapter "Absolute Encoders - Dimensional Drawings"

ORDERING DATA



Note:

Bus connections radial/axial via plug and cable optional, on request.