



GENERAL INFORMATION

TECHNICAL DATA mechanical

TECHNICAL DATA electrical

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HENGSTLER

TECHNICAL DATASHEET

Stainless Steel Encoders AC 61 - Profibus

- Compact design
- Protection class IP67
- High corrosion resistance
- Robust design
- Resolution up to 26 Bit (14 Bit ST, 12 Bit MT)
- Bus cover
- Programmable: Resolution, Preset, Direction
- Output of speed, acceleration
- Applications: packaging machine for food and beverage, ship equipment (e.g. cranes, winches, cable laying ships), offshore applications







The absolute stainless steel encoders are available in the Versions AC 59 and AC 61.

- AC 59: drawn stainless steel housing, only together with cable outlet, no access to control elements
- AC 61: machined housing, possible with cable or bus cover, access to control elements (DIP switch, Reset switch)

Housing diameter	61.5 mm
Shaft diameter	9.52 mm / 10 mm (Solid shaft)
Flange (Mounting of housing)	Square flange 63.5 mm
Protection class shaft input (EN 60529)	IP67
Protection class housing (EN 60529)	IP67
Shaft load axial / radial	40 N / 60 N
Max. speed	max. 6000 rpm (continuous), max. 10 000 rpm (short term)
Torque	≤ 1 Ncm
Moment of inertia	approx. 20 gcm²
Vibration resistance (DIN EN 60068-2-6)	100 m/s² (10 500 Hz)
Shock resistance (DIN EN 60068-2-27)	1000 m/s² (6 ms)
Operating temperature	-40 °C +85 °C
Storage temperature	-40 °C +85 °C
Material shaft	Stainless Steel
Material housing	Stainless Steel
Weight	approx. 1180 g
Connection	Bus cover with 3 sealed cable exits
General design	as per DIN EN 61010-1, protection class III, contamina- tion level 2, overvoltage class II
Supply voltage	DC 10-30 V
Max. current w/o load	220 mA (ST), 250 mA (MT)
EMC	EN 61326: Class A

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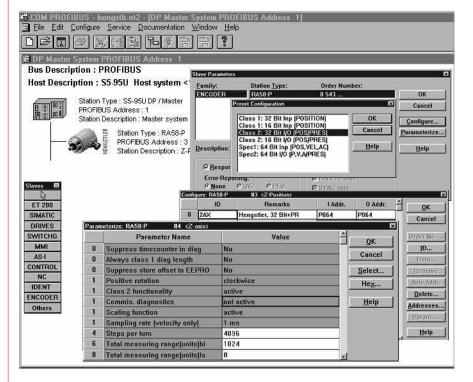
TECHNICAL DATA electrical (continued)

STARTUP (The encoder can be easily and quickly installed and programmed with the GSD file.)

ELECTRICAL CONNECTIONS Bus cover with 3 sealed cable exits

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Resolution singleturn	10 - 14 Bit
Resolution multiturn	12 Bit
Output code	Binary
Drives	RS 485
Linearity	\pm ½ LSB (± 1 LSB for resolution 13, 14, 25, 26 Bit)
Profile/ protocol	Profibus DP with encoder profile class C2 (parameteriz- able)
Programmable	Resolution, Preset, Direction
Integrated special functions	Speed, Acceleration, Operating time
Baud rate	is automatically set within a range of 9.6 KBaud through 12 MBaud
Device address	adjustable with DIP switches, via fieldbus (optional)
Bus termination resistor	set via DIP switches



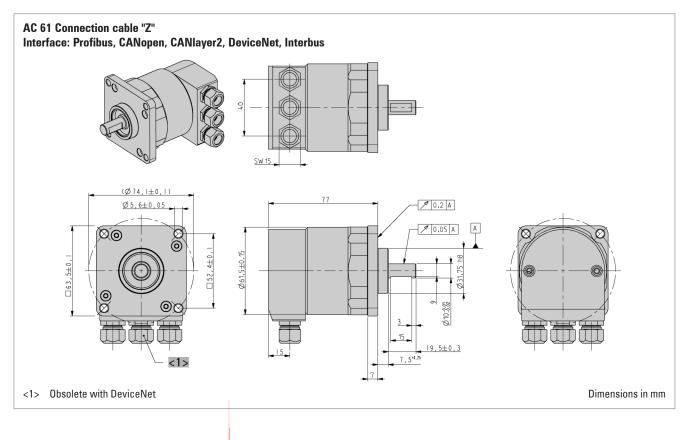
Connecting Terminal	Signal
1	UB in (DC 10 - 30V)
2	0 V in
3	UB out
4	0 V out
5	B in
6	A in
7	B out
8	A out

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Stainless Steel Encoders AC 61 - Profibus

DIMENSIONED DRAWINGS



ORDERING INFORMATION

Туре	Resolution	Supply voltage	Flange, Protection, Shaft	Interface	Connection
AC61	0010 10 Bit ST 0012 12 Bit ST 0013 13 Bit ST 0014 14 Bit ST 1212 12 Bit MT + 12 Bit ST 1213 12 Bit MT + 13 Bit ST 1214 12 Bit MT + 14 Bit ST	E DC 10 - 30 V	0.76 Square, IP67, 9.52 mm 0.72 Square, IP67, 10 mm	DP Profibus	Z Bus cover with 3 sealed cable exits

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Stainless Steel Encoders AC 61 - Profibus Accessories

			Ordering code
	Bellows coupling	10 mm / 10 mm	3 520 037
	Bellows coupling	8 mm / 10 mm	3 520 077
	Helical coupling 25/32	6 mm / 10 mm	3 520 066
•	Helical coupling 25/32	10 mm / 12 mm	3 520 065
	Helical coupling 25/32	10 mm / 10 mm	3 520 074
	Isolated disk coupling	6 mm / 10 mm	3 520 082
coupling	Isolated disk coupling	10 mm / 10 mm	3 520 088

Tread 2 B

with glued-on rubber profile B = low-wear rubber surface with good grip (white) Applications such as paper and cardboard, measuring cables, nongreasy metals, fleece, undressed or surface-treated wood, soft and hard plastics

Tread 3

vulcanized rubber surface with parallel knurl Applications such as rubber, leather, fabrics, flooring and glass

Tread 4

Aluminum with parallel knurl

Applications such as rubber, soft plastics, wood with rough surface, and to a limited extent for fabrics

Tread 6

plastic surface Applications such as wire, greasy metals and steel sections

Material	Bore diameter (mm) fit- ting to encoder shaft	Circum- ference	Tread	Width of bearing sur- face	Ordering code
Aluminum	10 mm	0.2 m	2 B	12 mm	0 601 049
Aluminum	10 mm	0.5 m	2 B	25 mm	0 601 151
Aluminum	10 mm	0.5 m	3	25 mm	0 601 161
Aluminum	12 mm	0.5 m	3	25 mm	0 601 166
Aluminum	10 mm	0.5 m	6	25 mm	0 601 163
Aluminum	10 mm	0.5 yd	4	25 mm	0 601 157

FLEXIBLE COUPLINGS

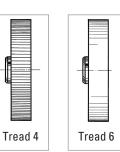


Bellows coupling



MEASURING WHEELS





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TECHNICAL DATASHEET

Stainless Steel Encoders AC 61 - Profibus Accessories

	Ordering code
Technical manual, English	2 565 255
Technical manual, German	2 565 090

GSD-file, as download from our homepage

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TECHNICAL MANUALS

SOFTWARE

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