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# HENGSTLER

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**HENGSTLER**

# Absolute Shaft Encoders Type AC 58

## ACURO industry SUCOnet



AC 58 with hub shaft



AC 58 with solid shaft

- Compact design
- SUCOnet or Hengstler-G1-Protocol
- Parameterizable: preset, direction, scaling factor, resolution
- PC communication via RS 485 with Hengstler-G1-Protocol

### TECHNICAL DATA mechanical

Housing diameter	58mm
Shaft	one sided open hub shaft, Vollwelle
Flange	Synchro flange, clamping flange, hubshaft with tether, square flange
Shaft diameter	Solid shaft 6 mm, 10 mm; hub shaft 10 mm, 12mm
Protection class shaft input	IP64 or IP67
Protection class housing	IP64
Max. shaft load axial/ radial	40/ 60 N
Starting torque	≤ 0,5 Ncm
Max. speed	12 000 min <sup>-1</sup> (short term) 10 000 min <sup>-1</sup> (continuous)
Operating temperature	-10...+60 °C
Storage temperature	-25...+85 °C
Shock resistance	1 000 m/ s <sup>2</sup>
Vibration resistance	100 m/ s <sup>2</sup>
Material shaft	Stainless steel
Material housing	Aluminium
Weight ST/MT	260g/ 310g

### TECHNICAL DATA electrical

Supply voltage	DC 10 - 30 V
Max. current w/o load	200 mA
EMC	Interference emission according to EN 50081-2 Interference resistance according to EN 50082-2
Interface	RS485
Protocol	SUCOnet or Hengstler-G1-Protocol
Resolution singleturn	10 - 13 Bit
Resolution multiturn	12 Bit
Output code	Binary
Linearity	± ½ LSB (± 1 LSB for resolution 13 and 25 Bit)
Device address	set via DIP switches
Bus termination resistor	set via DIP switches
Programmable (SUCOnet)	Direction, Resolution
Connection	Cable radial or axial

### DIMENSIONAL DRAWINGS

see chapter "Dimensional drawings ACURO industry", starting page 146

# Absolute Shaft Encoders Type AC 58

## ACURO industry SUCOnet

### PIN ASSIGNMENT

Colour	Signal
red	DC 10 - 30 V
blue	0 V
pink	Data (in)
grey	Data (in)
yellow	Data (out)
green	Data (out)
white brown	GND

### ACCESSORIES

	Ordering code
Technical manual, German	2 547 080
Technical manual, English	2 547 081

### ORDERING INFORMATION

Type	Resolution	Supply voltage	Flange, Protection, Shaft	Interface	Connection
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>AC58</b>	<b>0010</b> 10 Bit ST <b>0012</b> 12 Bit ST <b>0013</b> 13 Bit ST <b>1210</b> 12 Bit MT+10 Bit ST <b>1212</b> 12 Bit MT+12 Bit ST <b>1213</b> 12 Bit MT+13 Bit ST	<b>E</b> DC 10 - 30 V	<b>S.41</b> Synchro, IP64, 6x10mm <b>K.42</b> Clamping, IP64, 10x19,5mm <b>K.46</b> Clamping, IP64, 9,52x19,5mm <b>F.42</b> Hubshaft with tether, IP64, 10x19,5mm, hollow shaft <b>F.47</b> Hubshaft with tether, IP64, 12x19,5mm, hollow shaft <b>F.46</b> Hubshaft with tether, IP64, 9,52x19,5mm, hollow shaft <b>Q.42</b> Square, IP64, 10x19,5mm <b>Q.46</b> Square, IP64, 9,52x19,5mm	<b>US</b> SUCOnet <b>RS</b> Hengstler-G1-Protocol	<b>A</b> cable, axial <b>B</b> cable, radial
<b>Preferably available versions are printed in bold type.</b>					