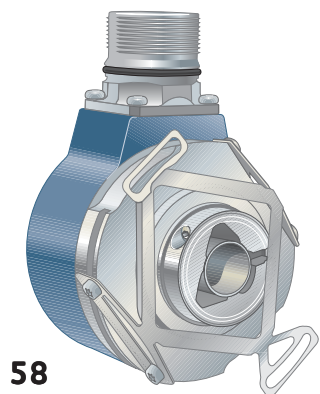
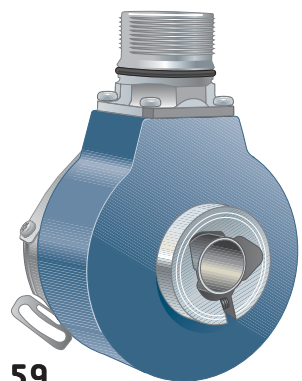


607/608 — Ruggedized Hollow shaft encoder, Absolute

SSI, EnDat



58



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Short description:

- >> 13 or 25 bit resolution
- >> IP 67 at housing, IP 64 at shaft inlet
- >> Robust enclosure for harsh environments
- >> Shock and vibration protected

Suitable applications:

- >> Standard to demanding industrial applications
- >> Positioning applications
- >> Printing machines
- >> Packaging machines

General information

Encoder data		
Operating temperature	-40°C .. +85°C (+100°C for EnDat)	
Storage temperature	-30°C .. +85°C	
Ingress protection class	IP-67 according to IEC 60529	
At shaft inlet	IP-64 according to IEC 60529	
Vibration (55 to 2000Hz)	< 150 m/s ² according to IEC 60068-2-6	
Shock (6ms)	< 1000 m/s ² according to IEC 60068-2-27	
Cover material	Aluminium	
Weight	Approx. 300g	
Accuracy and resolution		
Encoder type	<i>RHA 607</i>	<i>RHA 608</i>
Total Resolution	13 Bit	25 Bit
Singleturn resolution	13 Bit	13 Bit (8192 absolute positions per revolution)
Multiturn resolution		12 Bit (4096 absolute number of revolutions)
Accuracy	± 1 LSB	

Flange option

Flange type	58, HS	59, THS
Type	Standard	
Outer diameter	ø58 mm	
Flange material	Aluminium	
Torque support	Stator coupling	

Shaft option

Shaft type	Ø 12, HS	Ø 12, THS
Axial shaft load	10 N	
Radial shaft load	20 N	
Mech. permissible speed	6000 rpm	12000 rpm
Shaft material	Stainless steel	
Moment of inertia	4,3 x 10 ⁻⁶ kgm ²	

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Connection option

Encoder type	EnDat (cable)	EnDat (17pEML)	SSI (cable)	SSI (17pEML)
Function	Colour	Marking	Colour	Marking
+E Volt	Brown/Green	7	Brown/Green	7
Sensor +E Volt	Blue	1	Blue	1
0 volt	White/Green	10	White/Green	10
Sensor 0 volt	White	4	White	4
Clock	Violett	8	Violett	8
Clock inverted	Yellow	9	Yellow	9
Data	Grey	14	Grey	14
Data inverted	Pink	17	Pink	17
Code sequence	NA	NA	Black	2
Zero set	NA	NA	Green	5
Connecting direction				
Radial	Yes	Yes	Yes	Yes

NA=Not available

Electrical option

Output interface	EnDat	SSI
Power supply	5V ±5%	10-30 V
Polarity Protected	No	Yes
Data output	RS-485	
Clock input	RS-485	
Frequency range	Max 2 MHz	100kHz -1MHz
Cable lenght	Max 100m (10m @ 2MHz)	Max 100m
Code type	Binary	Gray
Current consumption	Max 160mA (RHA 607), 200mA (RHA 608)	

Accessories

Gateway (EnDat encoders)	Part number
Profibus DP	01300210, -215
DeviceNet	01300240, -245
CANopen	01300230, -235
Cables and connectors	
Mating connector (17pEML)	01209085
Mating connector with assembled cable 2m	01210202
Mating connector with assembled cable, free length	01209092
Torque support M6	609451-01
Torque arm M6	01208014 ⁽¹⁾

⁽¹⁾ Length 70-1000mm available, specify when ordering

For additional accessories like assembled cables and torque arms, please advise separate datasheets for accessories.

Ordering information

EnDat	
576663-01	RHA 607 58 ø12hs 5Vdc SENB 17 pin EML Radial 13bit
620880-01	RHA 607 58 ø12hs 5Vdc SENB Cable 5m Radial 13bit ⁽¹⁾
620892-01	RHA 607 59 ø12ths 5Vdc SENB 17 pin EML Radial 13bit
620894-01	RHA 607 59 ø12ths 5Vdc SENB Cable 5m Radial 13bit ⁽¹⁾
576331-01	RHA 608 58 ø12hs 5Vdc SENB 17 pin EML Radial 25bit
620895-01	RHA 608 58 ø12hs 5Vdc SENB Cable 5m Radial 25bit ⁽¹⁾
620897-01	RHA 608 59 ø12ths 5Vdc SENB 17 pin EML Radial 25bit
620899-01	RHA 608 59 ø12ths 5Vdc SENB Cable 5m Radial 25bit ⁽¹⁾
SSI	
576666-01	RHA 607 58 ø12hs 10-30Vdc SSG 17 pin EML Radial 13bit
620900-01	RHA 607 58 ø12hs 10-30Vdc SSG Cable 5m Radial 13bit ⁽¹⁾
620901-01	RHA 607 59 ø12ths 10-30Vdc SSG 17 pin EML Radial 13bit
620902-01	RHA 607 59 ø12ths 10-30Vdc SSG Cable 5m Radial 13bit ⁽¹⁾
576463-01	RHA 608 58 ø12hs 10-30Vdc SSG 17 pin EML Radial 25bit
620903-01	RHA 608 58 ø12hs 10-30Vdc SSG Cable 5m Radial 25bit ⁽¹⁾
620905-01	RHA 608 59 ø12ths 10-30Vdc SSG 17 pin EML Radial 25bit
620908-01	RHA 608 59 ø12ths 10-30Vdc SSG Cable 5m Radial 25bit ⁽¹⁾

⁽¹⁾ Variants with cable outlet are available upon request

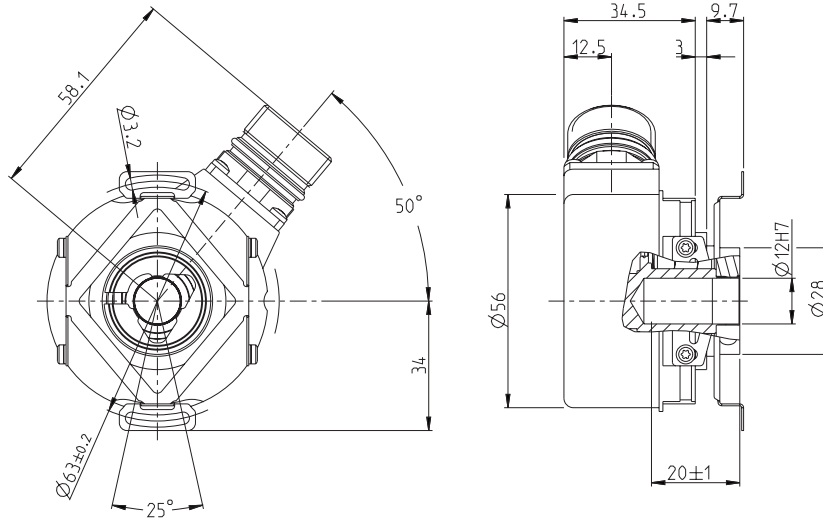
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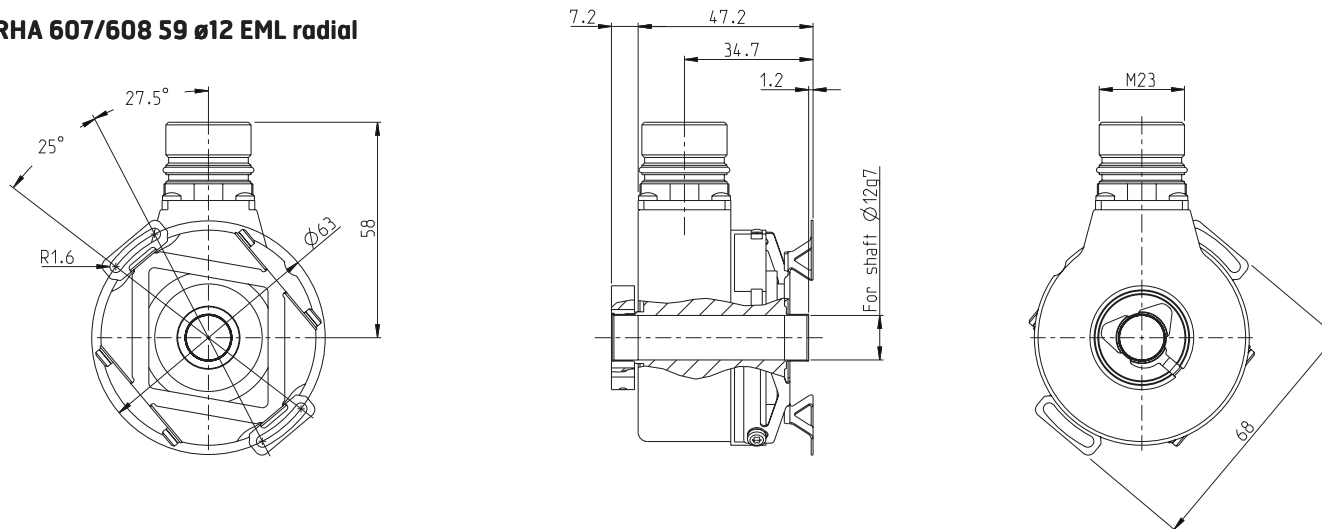


Dimensions

RHA 607/608 58 $\varnothing$ 12 EML radial



RHA 607/608 59 $\varnothing$ 12 EML radial



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