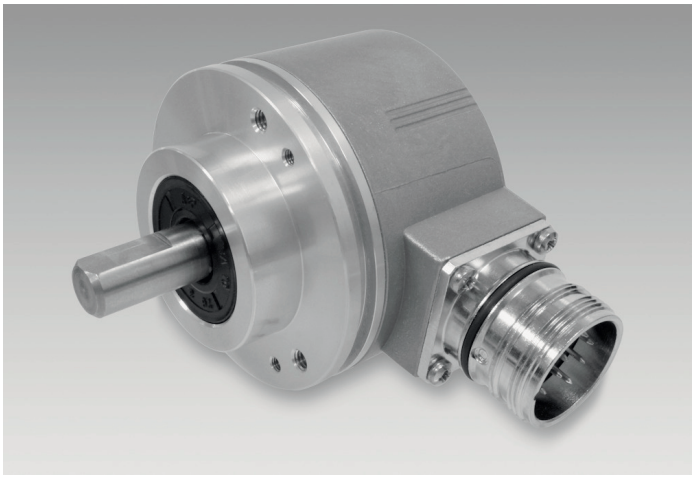
EIL580-SC - Option 6204

Solid shaft with clamping flange

100…5000 pulses per revolution

Overview

- Size ø58 mm
- Precise optical sensing
- Output signal level TTL or HTL
- Clamping flange
- Connection radial
- Pulses per revolution up to 5000
- High protection IP 67
- High resistance to shock and vibrations
- Corrosion protection C3



Technical data

Technical data - electrical ratings

Voltage supply	5 VDC ±5 % 8...30 VDC 4.75...30 VDC
Reverse polarity protection	Yes
Short-circuit proof	Yes (HTL) Yes (TTL, max. 1 s and 1 signal)
Consumption w/o load	≤70 mA
Pulses per revolution	100 … 5000
Phase shift	90 ° ±10°
Duty cycle	40…60 %
Reference signal	Zero pulse, width 90° ±10 %
Sensing method	Optical
Output frequency	≤300 kHz (TTL) ≤160 kHz (HTL)
Output signals	A+, B+, R+, A-, B-, R-
Output stages	TTL/RS422 HTL/push-pull
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-3
Approval	UL 508 / CSA 22.2

Technical data - mechanical design

Size (flange)	ø58 mm
Shaft type	ø10 x 20 mm, solid shaft with flat ø3/8" x 4/5" (ø9.525 x 20.32 mm), solid shaft with flat
Admitted shaft load	≤40 N axial ≤80 N radial
Flange	Clamping flange
Protection DIN EN 60529	IP 67 (with shaft seal)
Operating speed	≤6000 rpm (+20 °C, IP 67)
Starting torque	≤0,02 Nm (+20 °C, IP 67)
Material	Housing: aluminium die-cast (coated) Flange: aluminium, coated Solid shaft: stainless steel
Operating temperature	-40...+85 °C
Relative humidity	90 % non-condensing
Resistance	DIN EN 60068-2-6 Vibration 30 g, 10-2000 Hz DIN EN 60068-2-27 Shock 300 g, 6 ms
Corrosion protection	for ambient conditions C3 according to ISO 12944-2
Connection	Flange connector M23, 12-pin
Weight approx.	300 g

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EIL580-SC - Option 6204

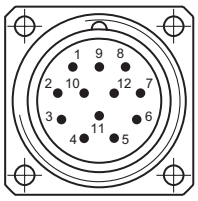
Solid shaft with clamping flange

100…5000 pulses per revolution

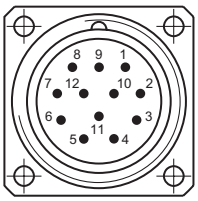
Terminal assignment

Flange connector M23, 12-pin

Pin	Assignment
1	B-
2	–
3	R+
4	R-
5	A+
6	A-
7	–
8	B+
9	–
10	GND
11	–
12	UB



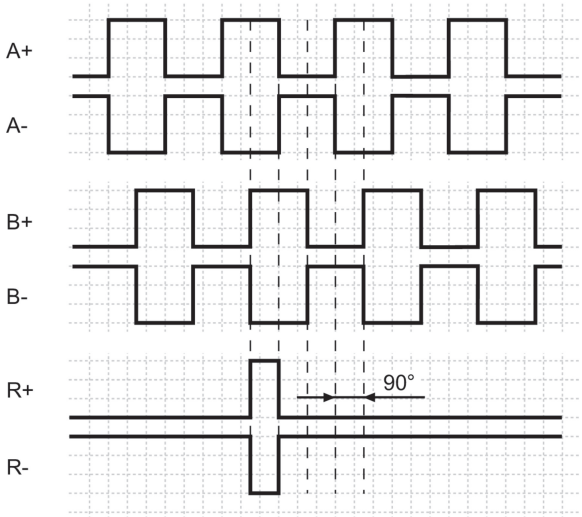
Flange connector M23, pin contacts, 12-pin, counterclockwise (CCW)



Flange connector M23, pin contacts, 12-pin, clockwise (CW)

Output signals

Clockwise rotating direction when looking at flange.



Trigger level

Outputs	TTL/RS422
Output level High	≥2.5 V
Output level Low	≤0.5 V
Load	≤20 mA

Outputs	HTL/Push-pull
Output level High	≥UB -3 V
Output level Low	≤1.5 V
Load	≤20 mA

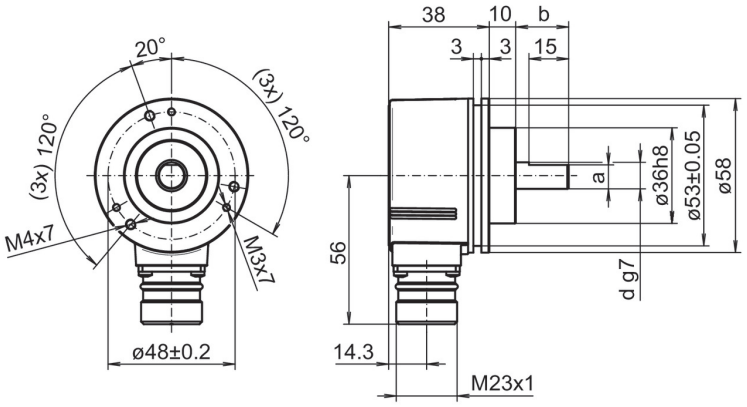
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EIL580-SC - Option 6204

Solid shaft with clamping flange

100…5000 pulses per revolution

Dimensions



d g7	a	b
ø9.525	8.64	20.32
ø10	9.	20

Clamping flange, flange connector M23, radial

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EIL580-SC - Option 6204

Solid shaft with clamping flange
100…5000 pulses per revolution

Ordering reference

	EIL580	-	S	C	##	.	7	##	#	.	####	.	A	/	6204
Product															
	EIL580														
Shaft type															
Solid shaft			S												
Flange (shaft)															
Clamping flange, centering collar Ø36 x 10 mm, pitch circle diameter 48 mm - 3xM3/3xM4				C											
Shaft															
ø3/8" x 4/5" (Ø9.525 x 20.32 mm), with flat					U3										
ø10 x 20 mm, with flat					10										
Protection class															
IP 67							7								
Connection															
Flange socket radial, M23, 12-pin, male contacts, CCW(1)								F							
Flange socket radial, M23, 12-pin, male contacts, CW(2)								E							
Voltage supply / output															
5 VDC, TTL/RS422, 6 channel									E						
8...30 VDC, TTL/RS422, 6 channel (Vout=5V)									H						
8...30 VDC, HTL/push pull, 6 channel									N						
4,75...30 VDC, HTL/push pull, 6 channel (Vout=Vin)									Q						
Pulse number															
100											100				
120											120				
150											150				
200											200				
250											250				
256											256				
300											300				
360											360				
400											400				
500											500				
512											512				
600											600				
720											720				
800											800				
900											900				
1000											1000				
1024											1024				
1200											1200				
1250											1250				
1440											1440				
1500											1500				
1800											1800				
2000											2000				
2048											2048				
2500											2500				
3000											3000				
3600											3600				
4000											4000				
4096											4096				
5000											5000				

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EIL580-SC - Option 6204

Solid shaft with clamping flange

100…5000 pulses per revolution

Ordering reference

	EIL580	-	S	C	##	.	7	##	#	.	####	.	A	/	6204
Operating temperature															
-40...+85 °C													A		
														/	
Option Mechanics															
Corrosion protection C3															6204

(1) Use suitable connection cables and M23 connectors with clockwise direction (CW). You can find these in our accessories "Connectors and cables".
(2) Use suitable connection cables and M23 connectors with counterclockwise direction (CCW). You can find these in our accessories "Connectors and cables".

Accessories

Connectors and cables

10164705	Female connector M23, 12-pin, CW
11095302	Female connector M23, 12-pin, CW, with cable 1 m
11100408	Female connector M23, 12-pin, CW, with cable 2 m
11100430	Female connector M23, 12-pin, CW, with cable 5 m
11100431	Female connector M23, 12-pin, CW, with cable 10 m
11074551	Female connector M23, 12-pin, CCW
11222560	Female connector M23, 12-pin, CCW, with cable 1 m
11222561	Female connector M23, 12-pin, CCW, with cable 2 m
11222562	Female connector M23, 12-pin, CCW, with cable 5 m
11222563	Female connector M23, 12-pin, CCW, with cable 10 m

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