

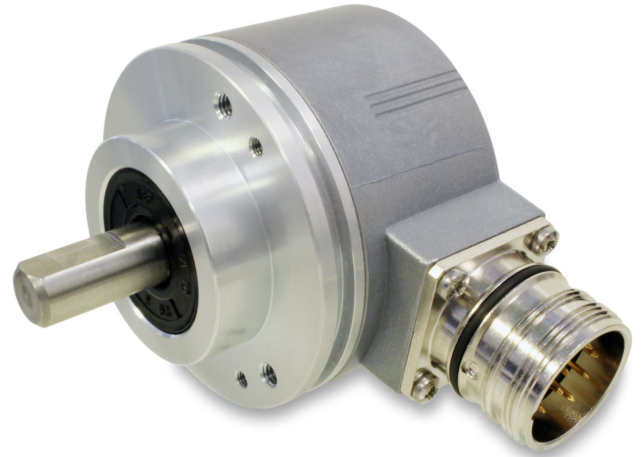
EIL580-SC - Option 6204

Solid shaft with clamping flange

100...5000 pulses per revolution

Overview

- Size $\varnothing 58$ mm
- Precise optical sensing
- Output signal level TTL or HTL
- Clamping flange
- Connection flange connector M23 CCW 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	$90^\circ \pm 10^\circ$
Duty cycle	40...60 %
Reference signal	Zero pulse, width $90^\circ \pm 10$ %
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	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	UL 508 / CSA 22.2

Technical data - mechanical design

Size (flange)	$\varnothing 58$ mm
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Technical data - mechanical design

Shaft type	$\varnothing 10 \times 20$ mm, solid shaft with flat $\varnothing 3/8" \times 4/5"$ ($\varnothing 9.525 \times 20.32$ mm), solid shaft with flat
Admitted shaft load	≤ 40 N axial ≤ 80 N radial
Flange	Clamping flange
Protection 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	EN 60068-2-6 Vibration 30 g, 10-2000 Hz 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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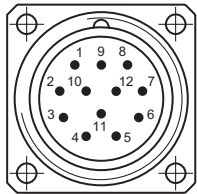
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Terminal assignment

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

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)

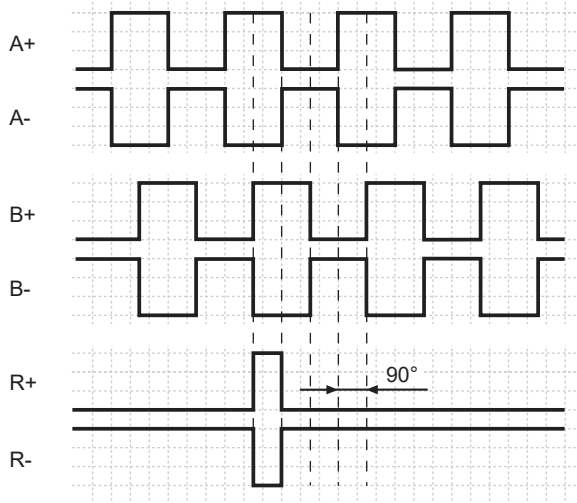
Trigger level

Outputs	TTL/RS422
Output level High	$\geq 2.5 \text{ V}$
Output level Low	$\leq 0.5 \text{ V}$
Load	$\leq 20 \text{ mA}$

Outputs	HTL/Push-pull
Output level High	$\geq U_B - 3 \text{ V}$
Output level Low	$\leq 1.5 \text{ V}$
Load	$\leq 20 \text{ mA}$

Output signals

Clockwise rotating direction when looking at flange.

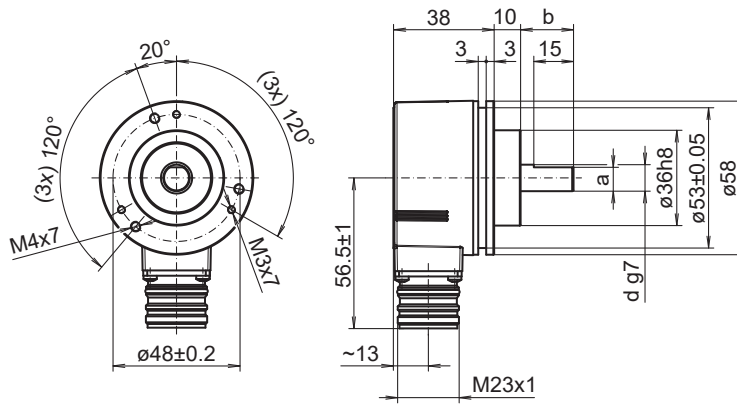


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Dimensions



Clamping flange, flange connector M23, radial

d g7	a	b
ø9.525	8.64	20.32
ø10	9.	20

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Ordering reference

	EIL580	-	S	C	##	.	7	F	#	.	####	.	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									F						
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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Ordering reference

EIL580 - S C ## . 7 F # . ##### . A / 6204

Operating temperature

-40...+85 °C

A

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Option Mechanics

Corrosion protection C3