

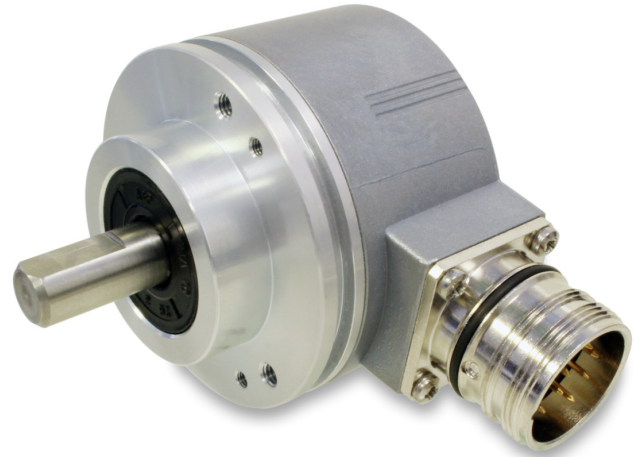
EIL580-SC - Option 6204/M23 CW

Solid shaft with clamping flange, flange connector M23 CW

100...5000 pulses per revolution

Overview

- Size ø58 mm
- Precise optical sensing
- Output signal level TTL or HTL
- Clamping flange
- Connection flange connector M23 CW 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	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	UL 508 / CSA 22.2

Technical data - mechanical design

Size (flange)	ø58 mm
---------------	--------

Technical data - mechanical design

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 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

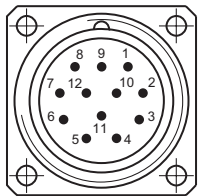
EIL580-SC - Option 6204/M23 CW

Solid shaft with clamping flange, flange connector M23 CW
100...5000 pulses per revolution

Terminal assignment

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

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,
clockwise (CW)

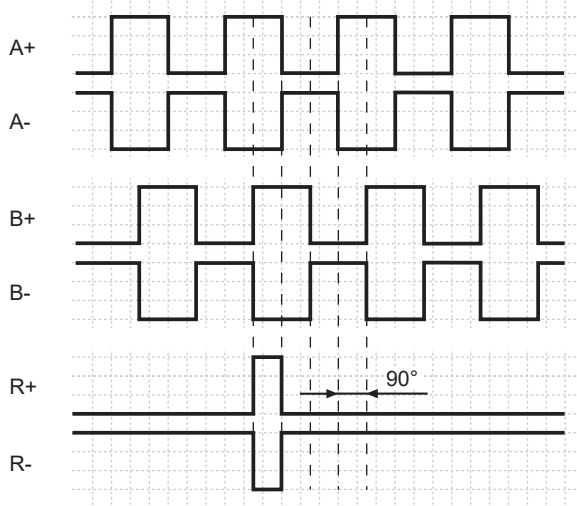
Trigger level

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.

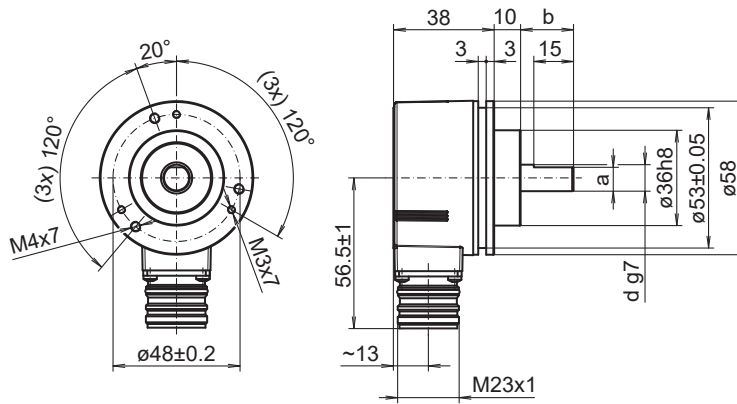


EIL580-SC - Option 6204/M23 CW

Solid shaft with clamping flange, flange connector M23 CW

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

EIL580-SC - Option 6204/M23 CW

Solid shaft with clamping flange, flange connector M23 CW

100...5000 pulses per revolution

Ordering reference

	EIL580	-	S	C	##	.	7	E	#	.	####	.	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, CW								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

EIL580-SC - Option 6204/M23 CW

Solid shaft with clamping flange, flange connector M23 CW

100...5000 pulses per revolution

Ordering reference

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

Operating temperature

-40...+85 °C

A

/

Option Mechanics

Corrosion protection C3