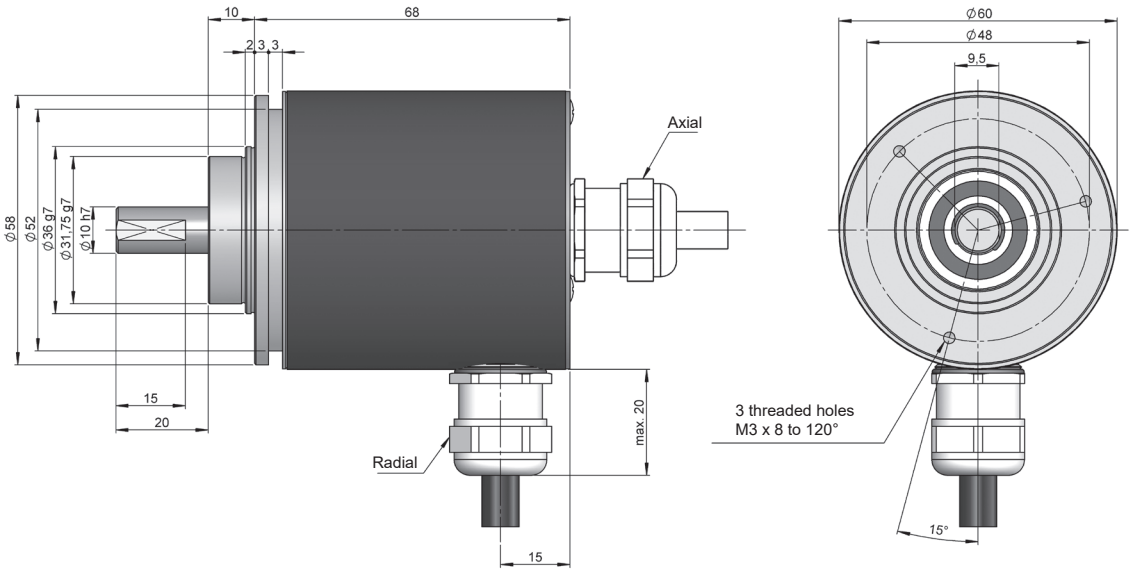
SERIE CS10

SINGLETURN ABSOLUTE ENCODER PARALLEL

- Parallel
- Singleturn resolution up to 13 bits
- External diameter 58 mm
- Shaft Ø 6 or 10 mm
- Protection class IP65 according to DIN EN 40050
- Connection by cable (other cable length available) or industrial connector

Optical Encoder | Absolute Encoder | High shaft load capacity | Vibration and shock resistant | IP65 | Temperature range | Express Delivery



Drawing shaft type 2, connection type 11/12, without flange

REFERENCE

Reference example: CS10-12110212S-4096

Serie	Solid shaft	Flange	Connection	Interface	Code	IP	Power Supply / Electronic output	Parameters config.	Singleturn resolution	Special customer
CS10 -	☐	☐	☐☐	☐	☐	☐	☐	☐	-☐☐☐☐	.☐☐
	1. Ø 6x10 mm **2.** Ø 10x20 mm	**1.** None **2.** 90.1002 **3.** 90.1003 **4.** 90.1004 **5.** 90.1005 **6.** 90.1006	**11.** Axial cable **12.** Radial cable **31.** Axial M23 12p **32.** Radial M23 12p **41.** Axial M23 16p **42.** Radial M23 16p **51.** Axial M27 21p **52.** Radial M27 21p	**0.** Parallel	**1.** Binary CW **2.** Binary CCW **3.** Gray CW **4.** Gray CCW **5.** Gray excess CW **6.** Gray excess CCW **7.** BCD CW **8.** BCD CCW	**1.** IP65	**2.** 10...30 VDC / NPN **3.** 10...30 VDC / Push-Pull **4.** 10...30 VDC / NPN OC	**Blank.** None **S.** Direction		

Order your reference
Step file 3D
info@encoderhohner.com
service available in 24 h

SERIE CS10

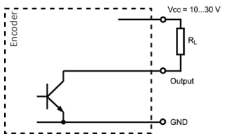
SINGLETURN ABSOLUTE ENCODER

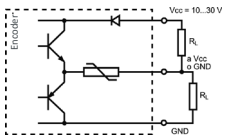
PARALLEL

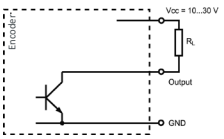
MECHANICAL SPECIFICATIONS

Materials	Housing: Steel Flange: Aluminium Shaft: Stainless Steel
Bearings	Ballraces
Bearings lifetime	$1x10^{10}$ rev.
Shaft diameter	6 or 10 mm
Maximum number of revolutions permitted mechanically	6000 rpm
Protection against dust and splashes according to DIN EN 40050	IP65
Rotor inertia moment	30 gcm²
Starting torque at 20°C (68°F)	≤ 0,02 Nm
Maximum load permitted on axial shaft	40 N
Maximum load permitted on radial shaft	60 N
Weight aprox.	0,4 Kg
Operating temperature range	-10°C to +70°C
Vibration	100 m/s² (10Hz...2000Hz)
Shock	1000 m/s² (6ms)
Axial or radial connection	2 meters cable or industrial connector (other cable lengths available on order) **Female connector not included**

OUTPUT SIGNALS







OUTPUT CIRCUIT	**NPN**	**Push-Pull**	**NPN Open Collector**
Reference code	*2*	*3*	*4*
Power supply	10...30 VDC	10...30 VDC	10...30 VDC
Consumption max.	100 mA	100 mA	100 mA
Max. load capability / channel	40 mA	±30 mA	40 mA
“Low” signal level	VOL < 2.5 VDC	VOL < 2.5 VDC	VOL < 2.5 VDC
“High” signal level	VOH > VCC - 3V	VOH > VCC - 3V	VOH > VCC - 3V
Frequency	200 kHz	200 kHz	200 kHz

ELECTRICAL SPECIFICATIONS

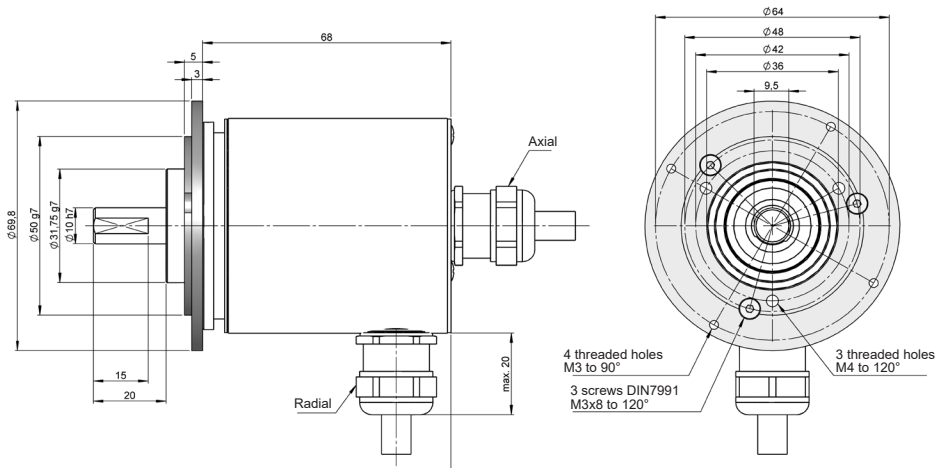
Interface	Parallel
Inputs	Opto-coupled
Code	Binary Gray BCD
Singleturn resolution	up to 8192 points per turn (13 bits)
Linearity	±1/2 LSB
Parameters config.	Direction

CONNECTION

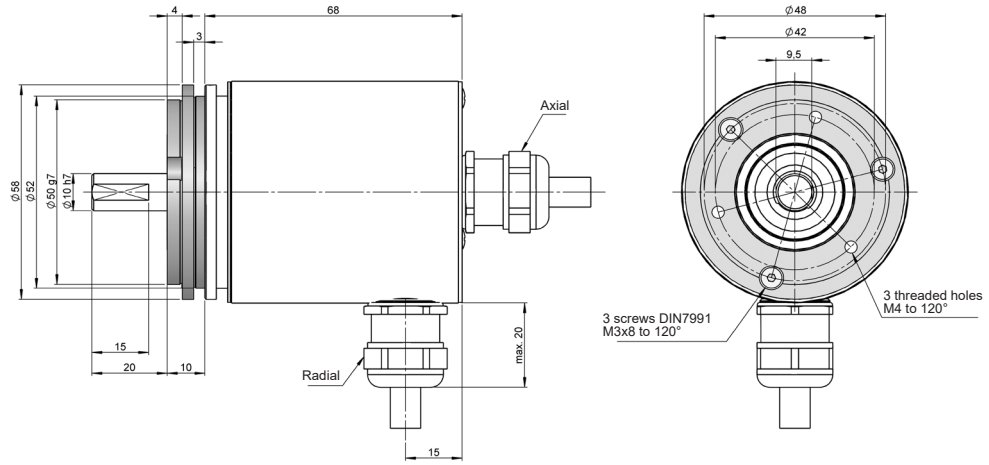
	Cable 15x0,14 mm² 95.0008031	**Cable** 25x0,14 mm² 95.0008030	**Connector** M23 12p CW	**Connector** M23 16p CW	**Connector** M27 21p CW
GND	Black	Black	1	1	1
VCC	Red	Red	2	2	2
Bit 0	Brown	Brown	3	3	3
Bit 1	White	White	4	4	4
Bit 2	Yellow	Yellow	5	5	5
Bit 3	Green	Green	6	6	6
Bit 4	Orange	Pink	7	7	7
Bit 5	Violet	Orange	8	8	8
Bit 6	Grey	Grey	9	9	9
Bit 7	Blue	Blue	10	10	10
Bit 8	White - Black	Yellow - Black	11	11	11
Bit 9	White - Red	Yellow - Red	12	12	12
Bit 10	White - Brown	Yellow - Brown		13	13
Bit 11	White - Yellow	Yellow - Green		14	14
Bit 12	White - Blue	Yellow - Grey		15	15
Bit 13		Yellow - Blue		16	16
Bit 14		White - Black			17
Bit 15		White - Red			18
DIR	White - Yellow	Yellow - Pink	11	15	20
RES	White - Blue	White - Blue	12	16	21

FLANGE DIMENSIONS

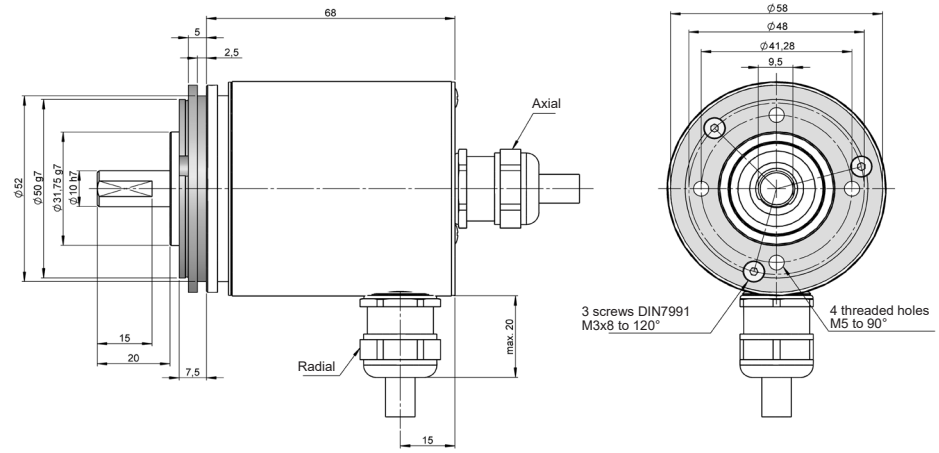
Flange 2
90.1002



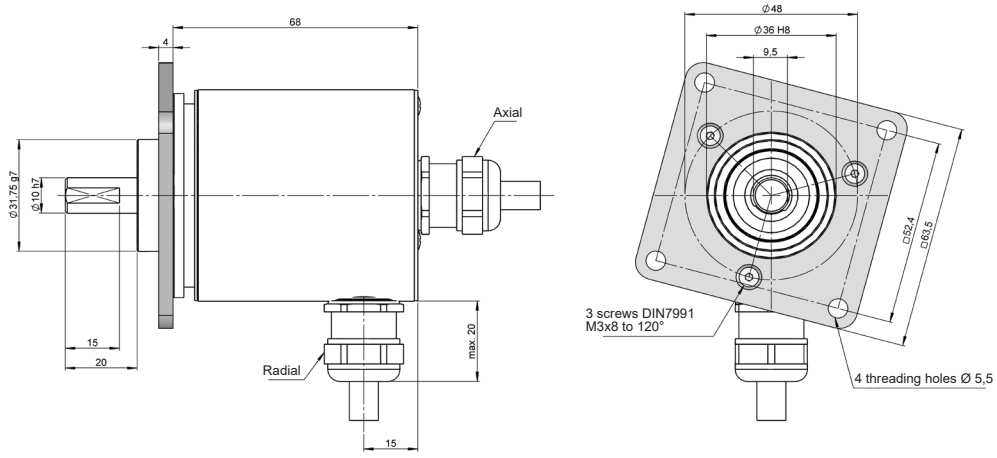
Flange 3
90.1003



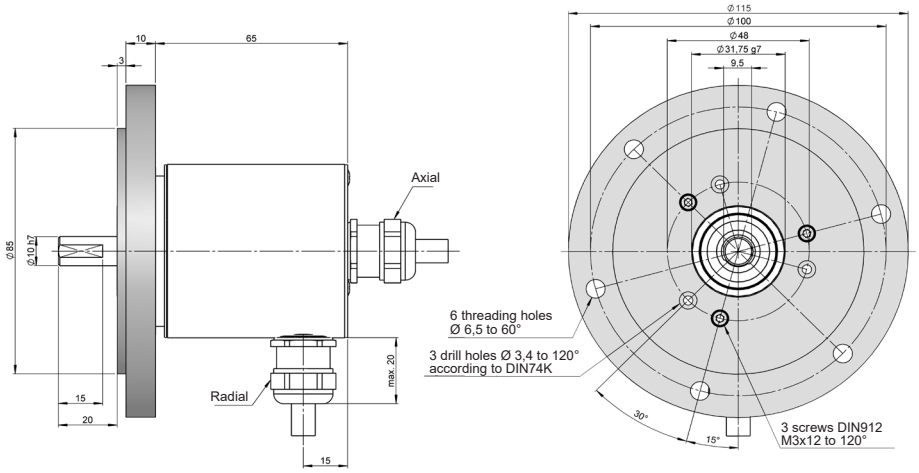
Flange 4
90.1004



Flange 5
90.1005



Flange 6
90.1006



CONNECTION DIMENSIONS

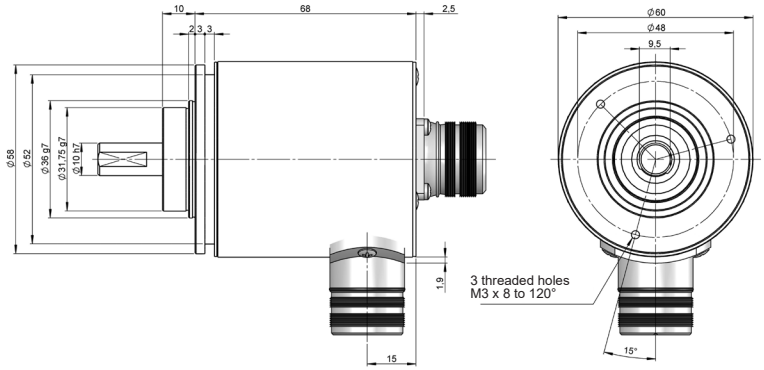
Female connector not included

Connection 31

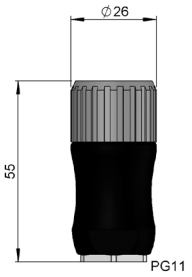
Axial
M23 12p
male panel
clockwise

Connection 32

Radial
M23 12p
male panel
clockwise



Female connector
95.0007131

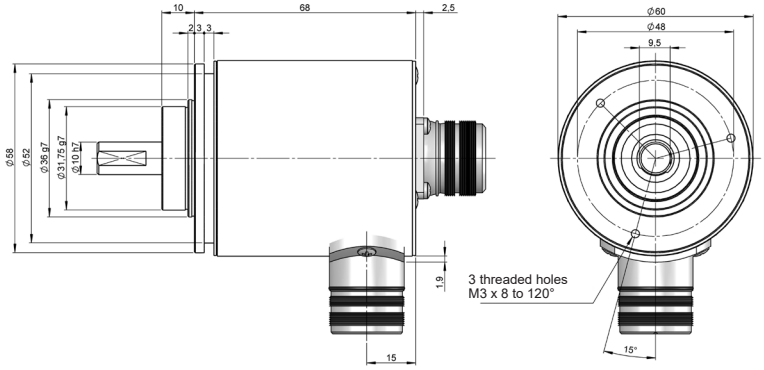


Connection 41

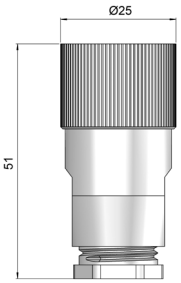
Axial
M23 16p
male panel
clockwise

Connection 42

Radial
M23 16p
male panel
clockwise



Female connector
95.0007006

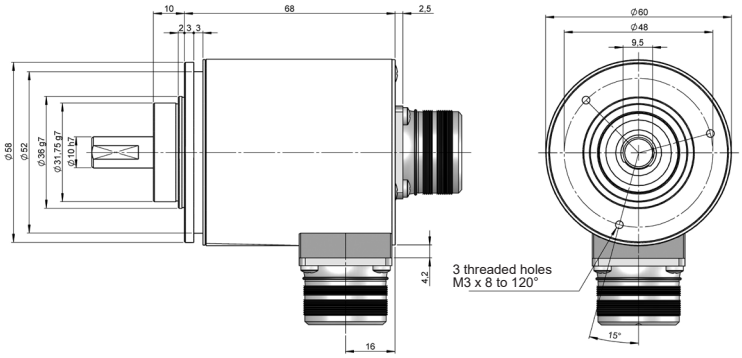


Connection 51

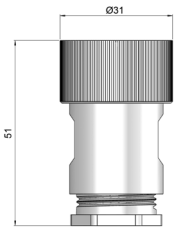
Axial
21p
male panel
clockwise

Connection 52

Radial
21p
male panel
clockwise



Female connector
95.0007062



CS10-Parallel_EN_01 12/21
© Hohner Automation, subject to errors and changes.