



Image with flexible flange 90.1045

SERIE 66

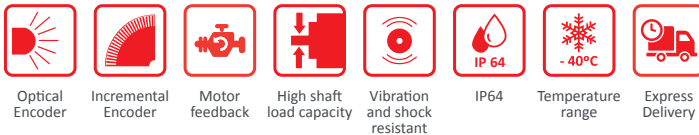
THREAD SHAFT INCREMENTAL ENCODER FOR INDUSTRIAL APPLICATIONS

Equivalent for SIEMENS 1XP8001-1 / 1XP8001-2

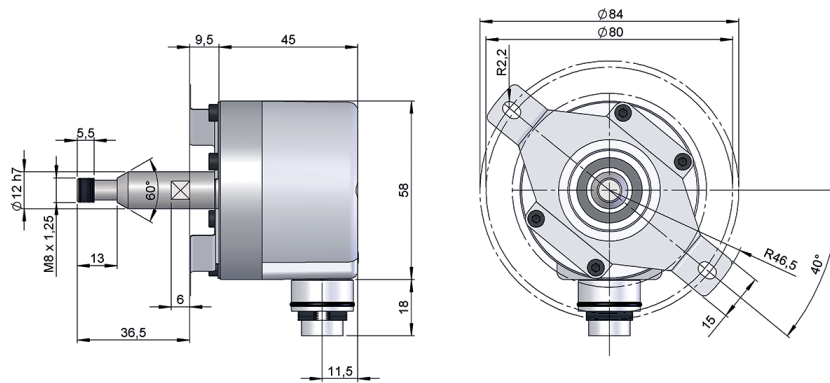
100% interchangeable (mechanically - electronically - pin out)

✓ 66-14121-1024.UC00 / 66-14122-1024.UC00

- Resolution up to 10.000 pulses per turn
- External diameter 58 mm
- Thread shaft M8
- Protection class IP64 according to DIN EN 60529
- Anti-rotation system through flexible flange or anti-turn stick
- Connection by cable (other cable length available) or industrial connector M16
- Female connector included

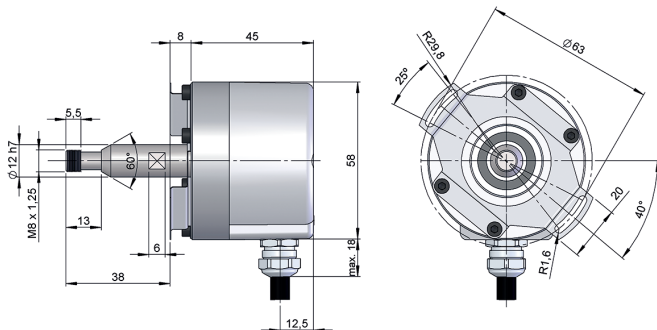


✓ Flexible flange (90.1045)



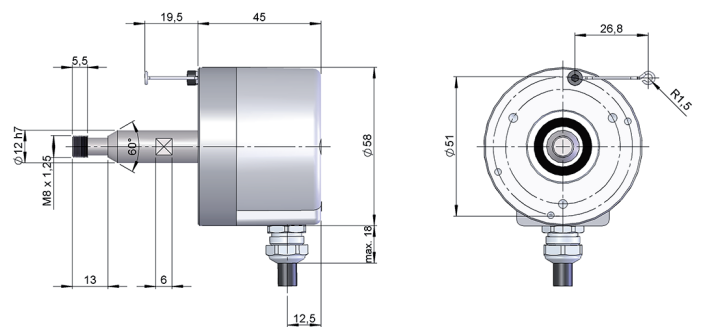
Drawing shaft type 1, anti-rotation system type 4, connection type 2

Flexible flange (90.1027)



Drawing shaft type 1, anti-rotation system type 1, connection type 1

Anti-turn stick (90.1041)



Drawing shaft type 1, anti-rotation system type 1, connection type 1



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REFERENCE								Reference example: 66-14121-1024
Serie	Shaft	Anti-rotation system	Output signals	Connection	Power Supply / Electronic output	Pulses number	Special customer	
66 -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	<input checked="" type="checkbox"/> 1. Thread M8	1. Option A Flexible flange 90.1027 2. Option B Anti-turn stick 90.1041 <input checked="" type="checkbox"/> 4. Option C Flexible flange 90.1045 3. None	<input checked="" type="checkbox"/> 1. A \tilde{A} +B \tilde{B} +0 $\tilde{0}$ <input checked="" type="checkbox"/> 2. A \tilde{A} +B \tilde{B}	<input checked="" type="checkbox"/> 1. Radial cable <input checked="" type="checkbox"/> 2. 90.9513 radial	0. 11...30 VDC / NPN Open collector 11..30 VDC <input checked="" type="checkbox"/> 1. 11...30 VDC / Line driver differential Push-Pull 11..30 VDC <input checked="" type="checkbox"/> 2. 5 VDC / RS422 5 VDC (compatible TTL) 6. 11...30 VDC / RS422 5 VDC (compatible TTL)		UT00. -40°C <input checked="" type="checkbox"/> UC00	

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

(*) Anti-rotation systems type 1 (Flexible flange 90.1027) and 4 (Flexible flange 90.1045) supplied assembled.
 Anti-rotation system type 2 (Anti-turn stick 90.1041) supplied disassembled and includes the screws required for assembly.
 Other required anti-rotation systems are not supplied assembled. All systems available in the sections "MOUNTING ACCESSORIES".

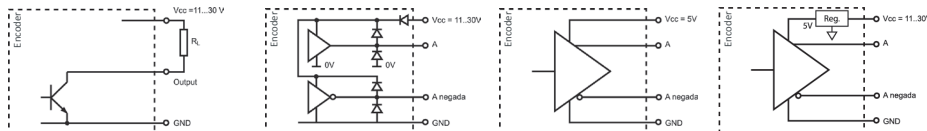
MECHANICAL SPECIFICATIONS

Materials	Cover: Aluminium Housing: Aluminium Shaft: Stainless Steel
Bearings	Ballraces
Bearings lifetime	1x10 ¹⁰ rev.
Housing fixing	Flexible flange 90.1027 (assembled) Flexible flange 90.1045 (assembled) Anti-turn stick 90.1041 (self-assembly kit included)
Permitted misalignment	±0.5 mm axial, ±0.3 mm radial (90.1027, 90.1045, 90.1041)
Maximum number of revolutions permitted mechanically	6000 rpm
Protection against dust and splashes according to DIN EN 60529	IP64
Rotor inertia moment	30 gcm ²
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.	0,5 Kg
Operating temperature range	-20°C to +80°C - Standard -40°C to +80°C - Special Customer UT00
Vibration according to DIN EN 60068-2-6	100 m/s ² (10Hz...2000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s ² (6ms)
Maximum pulses per turn	10.000
Radial connection	2 meters cable or industrial connector M16 (other cable lenghts available on order) Female connector included

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OUTPUT SIGNALS



OUTPUT CIRCUIT	NPN Open Collector	Push-Pull Differential	RS422 (TTL compatible)	RS422 (TTL compatible)
Reference code	0	1	2	6
Power supply	11...30 VDC	11...30 VDC	5 VDC ±10%	11...30 VDC
Output voltage	11...30 VDC	11...30 VDC	5 VDC	5 VDC
Consumption	40 mA	Typical: 45 mA Max: 150 mA	Typical: 70 mA Max: 150 mA	Typical: 80 mA Max: 160 mA
Max. load capability / channel	40 mA	±30 mA	±20 mA	±20 mA
Lenght of cable allowed	50 m (24 VDC)	100 m	1200 m	1200 m
"Low" signal level	VOL < 0,4 VDC (24 VDC)	VOL < 2.5 VDC	VOL < 0,5 VDC	VOL < 0,5 VDC
"High" signal level	VOH > 22 VDC (24 VDC)	VOH > Vcc – 3 VDC	VOH > 2.5 VDC	VOH > 2.5 VDC
Frequency	100 kHz	200 kHz	300 kHz	300 kHz
Short circuit protection	Not permanent	Yes	Yes	Yes
Protection polarity inversion	Yes	Yes	Not permanent	Yes

Channel B leads (90° electric) channel A, view from the shaft, shaft rotating clockwise

CONNECTION

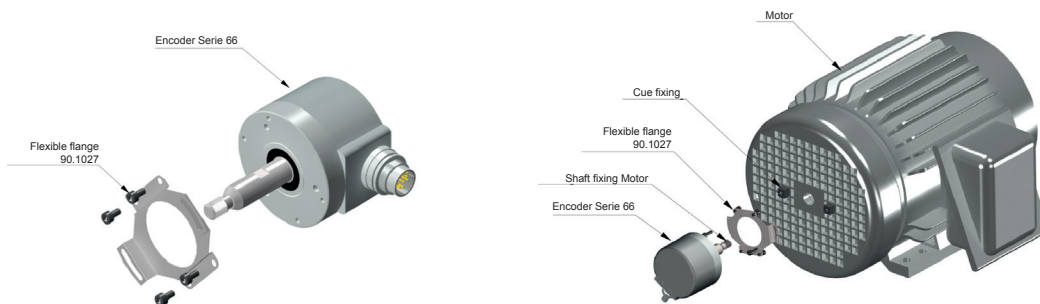


	95.0008003 Cable 3x2x0,14+2x0,34	90.9513 <input checked="" type="checkbox"/> M16 12p CW
GND	Negro	K - L
VCC	Rojo	B - M
A	Amarillo	E
B	Verde	H
Ã	Marrón	F
Ã	Azul	A
0 (reference)	Gris	C
0	Naranja	D

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ACCESSORIES EXAMPLES



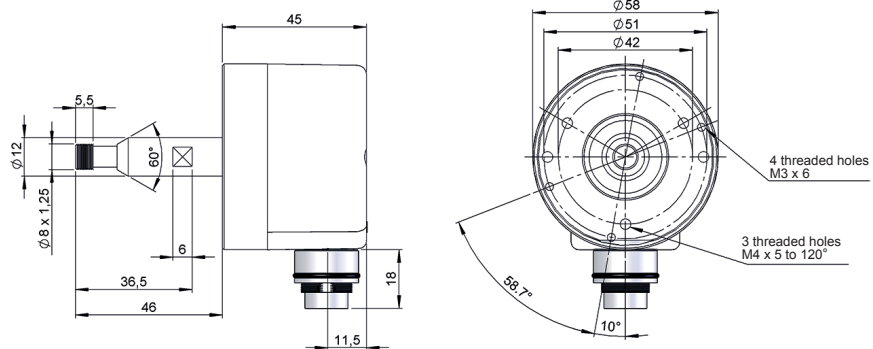
All the accessories available in the section "MOUNTING ACCESSORIES".

CONNECTION DIMENSIONS

Female connector included

Connection 2
90.9513 radial

90.9513
M16 12p
male panel
clockwise



90.9513

