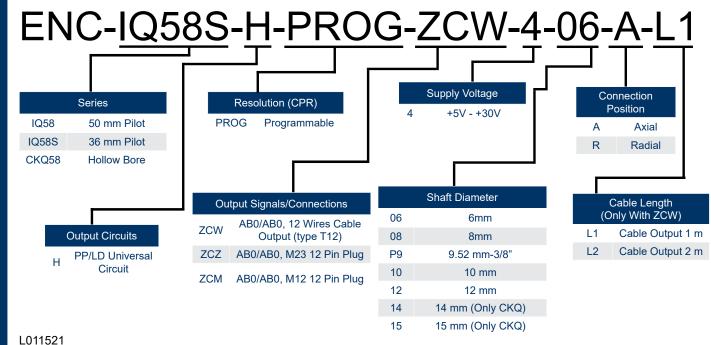


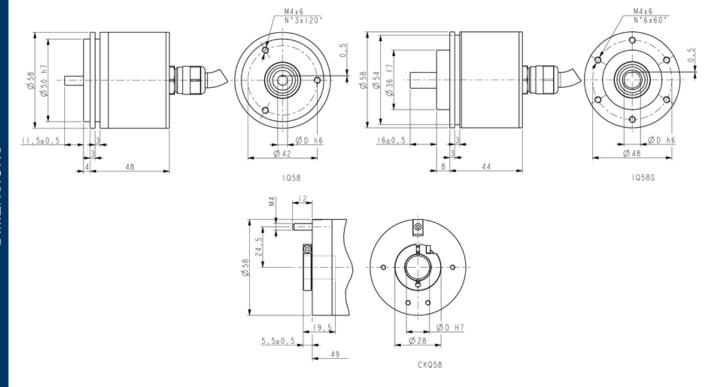
- Programmable Incremental Encoder
- Resolution from 1 to 16384 CPR
- Selectable Index length 90 or 180° el.
- Push-Pull and Line Driver Compatible Output
- Programmable via USB Cable
- IP 65 Rating



The IQ58S Programmable Incremental Encoders are for standard application with resolutions up to 16384 CPR (Cycles Per Revolution). This Programmable Encoder sets up its parameters by using software expressly written by Lika. The software program is supplied for free and can be installed on any PC with a Windows operating system that is Windoxs XP or later. This program sets up the working parameters of the encoder and monitors whether the encoder is working properly. The IQ58S Encoders have an absolute core, but this is only so they may be programmed. Furthermore, it has a selectable index length of 90° or 180° encode level. There is a Push-Pull and Line Driver compatible output. To properly use the IQ58S programmable incremental encoder it is highly recommended to purchase the EC-IP/IQ58-M12 Programming Cable and the KIT-IP/IQ58 USB Programming Kit.



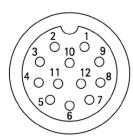




Signals	M23 12-Pin	M12 12-Pin
А	1	3
/A	2	4
В	3	5
/B	4	6
0	5	9
/0	6	10
+5VDC +30VDC	7	2
0VDC	8	1
Index Pulse Setting*	9	7
Counting Direction*	10	8
SDA	11	11
SCL*	12	12
Shield	Case	Case



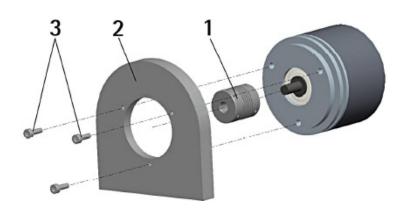
M12 12-Pin



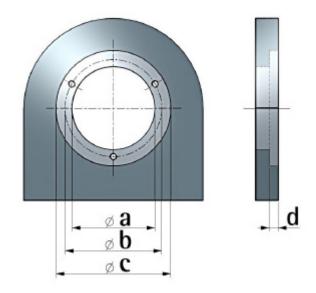


## IQ58/IQ58S Series

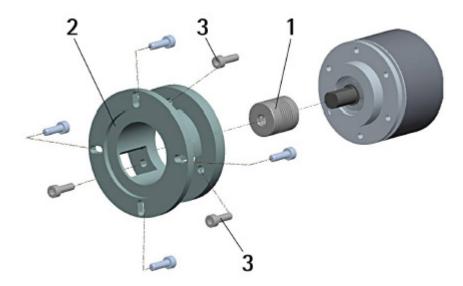
- Mount the flexible coupling 1 on the encoder shaft
- Fix the encoder to the flange 2 (or to the mounting bell) by means of screws type M4 3;
- Mount the flexible coupling 1 on the motor shaft, then secure the flange 2 to the support (or the mounting bell to the motor);
- Make sure the misalignment tolerances of the flexible coupling 1 are respected.







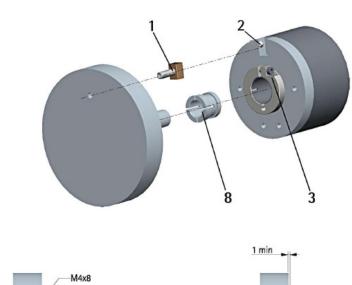


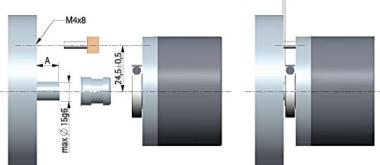




## **CKQ58 Series**

- Fasten the anti-rotation pin 1 to the rear of the motor (secure it using a locknut);
- Mount the encoder on the motor shaft using the reducing sleeve 8 (if supplied). Avoid forcing the encoder shaft;
- Insert the anti-rotation pin 1 into the slot on the flange of the encoder; this secures it in place by grub screw 2, preset at Lika;
- Fix the collar 3 to the encoder shaft.







Environmental Specifications		
Shock	100g, 6ms	
Vibrations	<u> </u>	
Protection	10g, 5-2000 Hz IP 65	
Operating Temperature Range	-40°C +85°C (-40°F + 185°F)	
Storage Temperature Range	-40°C +100°C (-40°F + 212°F)	
Storage remperature Range	(98% R.H. without condensation)	
Mechanical Specifications		
Dimensions	see drawing	
Shaft Diameter	ø 6, 8, 9.52, 10, 12 mm	
Hollow Shaft Diameter	ø 14, 15 mm	
Reducing Sleeves BR1-xx from ø15 to:	ø 6, 8, 9.52, 10, 11, 12 mm	
Shaft Loading (Axial, Radial)	100 N max.	
Shaft Rotational Speed	Typ. 6000 RPM / 12000 Temporary	
Starting Torque at 20°C	IQ58: 0, 15 Ncm / IQ58S, CKQ: 0, 4 Ncm (typical)	
Bearings Life	400 x 10^6 rev. min. (10^9 rev. min. with 20 N shaft loading max.)	
Electrical Connections	M12, M23 plug or cable output 1 m (3.3 ft)	
Weight	~ 200 g (7 oz)	
Option	Additional Cable	
Electrical Specifications		
Resolution (CPR)	Programmable from 1 to 65536	
Accuracy	± 0, 15°	
Counting Frequency	500 kHz max.	
Output Circuits	Universal Output (PP+LD compatible)	
Power Supply	+5V +30V	
Consumption	60 mA (typical)	
Output Current (each channel)	40 mA max.	
Protection	Against inversion of polarity and short cut	
EMC	Electro-magnetic immunity, EN 61000-4-2 EN 61000-4-4	
Materials		
Flange	Anticorodal, UNI EN AW-6082	
Housing	Anticorodal, UNI EN AW-6082	
Bearings	ABEC 5	
Shaft	Stainless Steel, Non-Magnetic - UNI EN 4305	