

A58G-F

ELECTRONIC HANDWHEEL



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Eletronic handwheel mod. A58G-F is photoelectric rotary encoder (pulses generator) and is used for manual rotation and data set up to the machine tools with numeric control (NC).

The encoder consists of three parts: mechanical, optical and electronic.

The case of the encoder is fixed to an object by means of 3 screws M4.

The handwheel has the graduations, which indicate the number of pulses generated during rotation for definite angle in both drections of rotation.

Electronic handwheel has two output signals (square-wave pulses) shifted by 90°.

Eletronic handwheel has four versions depending on output terminal group/connector.

ISO 9001:2000

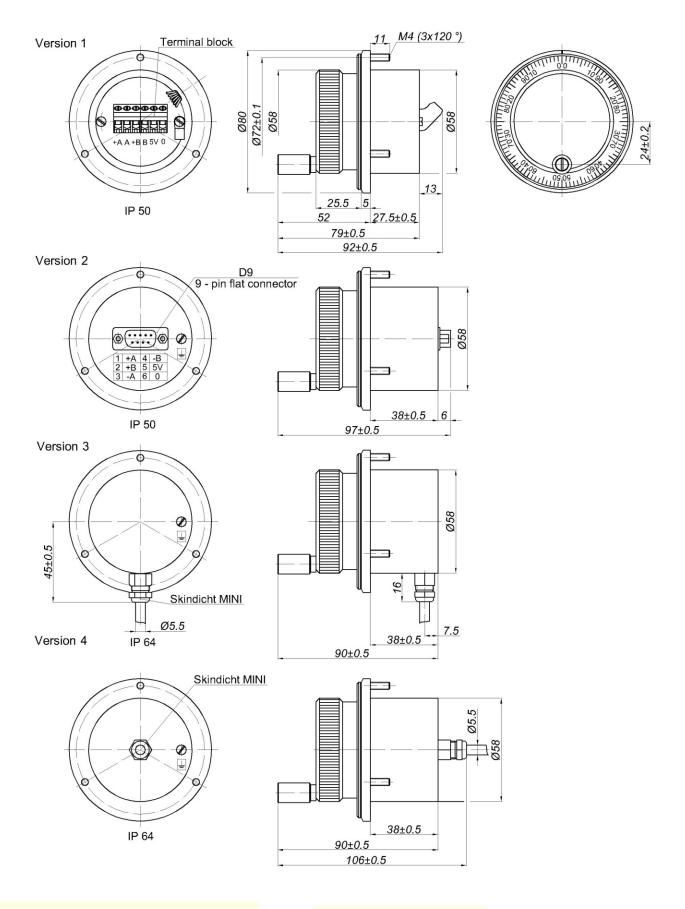
Mechanical Data

ı	- Moonamoar Bata			
	• Line number on disc (Z):	100	Storage temperature	-30+80 °C
	 Pulse number per shaft revolution 	100	Maximum humidity	
	 Resolution (at encoder output) 	216 arc.min	(without condensation of moisture)	98 %
	Accuracy:		• Permissible vibration (55 to 2000 Hz)	$\leq 100 \text{ m/s}^2$
	- standard	±10 arc.min	• Permissible shock (11 ms)	$\leq 1000 \text{ m/s}^2$
	- on option	±5 arc.min		
	• Protection (IEC 529):			
	- version with terminal group/connector	IP50		
	- version with cable	IP64		
	 Maximum weight without cable 	0,4 kg		
	Operating temperature	-10+70°C		

Electrical Data

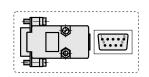
 Power supply Maximum consumed current	+5 V ±5%	 Maximum rising and falling time 	< 0,2 ms
(without load)	120 mA		
• Light source	LED	a=0,25T±0,16T	
Incremental signals	Square-wave \underline{A} , \underline{B} and their inverted \overline{A} , \overline{B} . Signal levels at 20 mA load current: - low ("0" logic) $\leq 0.5 \text{ V}$ - high ("1" logic) $\geq 2.4 \text{ V}$	a a a a A A A B B B	
 Maximum operating frequency Direction of signals 	manual rotation B lags A with clockwise rotation (viewed from shaft side)	a	

Note: The other type of signals: sine-wave current $\sim 11 \text{mkA}$, sine-wave voltage $\sim 1 \text{V}$, square-wave HTL (10...30V) - on option.



Accessories

D9 9-pin flat connector



Order form

A58G-F - 100 - X - X X

Version number:

- with terminal group, 6 pins
 with flat connector, 9 pins
 with cable (radial output)
 with cable (axial output)

Cable length (for version 3 and 4): 01 - 1,0 m 02 - 2,0 m

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