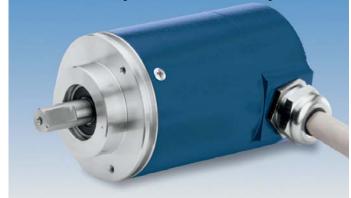


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## **Quality - made in Germany**



#### **Technical data**

Resolution Steps/Turn Turns

Code

Interface

24 409 409 in tv Bin RS

**Elektrical data** 

UB Operating voltage Current consumption Ma

Code change frequency Ma Accuracy ±0 ±0

Inputs

Level High Level Low

Connection:

> 0 < 0

CW aga witl

#### Outputs

Level High (PNP) Level Low

≥U  $\leq 3$ 

Loading High (PNP) Loading Low (NPN) Tristate

 $\leq -2$ ≤2 ≤2

All outputs with short-curce Open Collector output stag

# **RSN 58**

## **Programming cam controller** with 16 parallel outputs

- Total count from 2 to 4096 steps in two-power-steps programmable
- 16 outputs up to 250 cams programmable
- Code-distribution parameterizable normal/inverse
- on-board diagnosis systems
- Electronical zero-point- and Offset-adjustment

l Bit 196 (programmable) optional 196 (programmable) two-power-steps nary 5 232	Mechanical data Speed (mechanical) Speed (electrical) Start-up torque Shaft loading Moment of inertia	max. 10.000 min <sup>-1</sup> max. 6.000 min <sup>-1</sup> < 0,015 Nm < 40 N radial < 20 N axial 2 x 10 <sup>-6</sup> kgm <sup>2</sup>	
B = 1030 VDC ax. 50 mA (w/o load), at 24 VDC	<b>Material</b> Housing Flange Weight	Steel Aluminium approx. 600 g	
ax. 400 kHz 0,03° with 200 kHz 0,05° with 400 kHz	<b>Ambient conditions</b> Vibration Shock	DIN EN 60068-2-6 $\leq$ 100 ms <sup>-2</sup> ,162000 Hz DIN EN 60068-2-27	
0,7 UB 0,3 UB	Operating temperature Humidity	Max. relative humidity 95 %	
W/CCW input with 10 kohms jainst UB; without zeroing input th 10 kohms against GND	Protection type Interference resistance Emitted interference		
UB - 4,5 V (with I = -15 mA) 3,5 V (with I = 15 mA) -20 mA 20 mA 200 μA	Description of diagnostic functions The following is montored during operation: - Consistency test of code - Exceeding of the permissible signal frequency - LED failure, aging - Receiver failure - Code disk, glass breakage - Power supply of electronic gear unit		
cuit-proof PNP or NPN ages.	<b>Special functions</b> - Two "limit switch function" preselection - Programmable speed monitoring - Diagnosis and operating status		

## **Contact Description**

	•
1 - 16 SO-S15	16 cam outputs. Up to 250 cams can be programmed on these 16 outputs. With PNP, Pull-DOWN is recommended for each data line, and for NPN Pull-UP r resistors with 4.7 kohms.
17 - 19	Outputs without function. These outputs may be not connected external.
20 - 24 D19 - D23	Special outputs This outputs may be optionally assigned the special functions preselection 1, preselection 2, speed monitoring and diagnosis status by programming.
27 Adjustment	Electronic adjustment (takeover of the pre-programmed value) can be done by generating a steep edge from GND to UB (is activated with a falling edge). Adjustment must be done after selecting the direction of rotation (CW/CCW). Set to GND for max. immunity after adjustment. Impulse length <sup>3</sup> 100 ms.
28 ENABLE	If this input is connected to Low level, the output drivers are activated. If it is connected to High potential (or unconnected), the output drivers switch into the high-resistance state (tristate).
30 CW/CCW	CW/CCW determines the direction of turn. From the point of view of the shaft CW means that the code increases when the shaft turns to the right. When the GND is added, the code changes to CCW (descending sequence). The unit leaves the factory in CW.
34 GND-Sense	This contact is internally connected to

34 GND-Sense This contact is internally connected to GND and is used together with UBSense for measuring the supply voltage at the encoder by the downstream electronics.

35 UB-Sense This contact is internally connected to UB. If the sensor line is not used, this contact must be isolated (danger of short circuit).

36 UB Encoder power supply connection

37 GND Encoder ground connection relating to UB

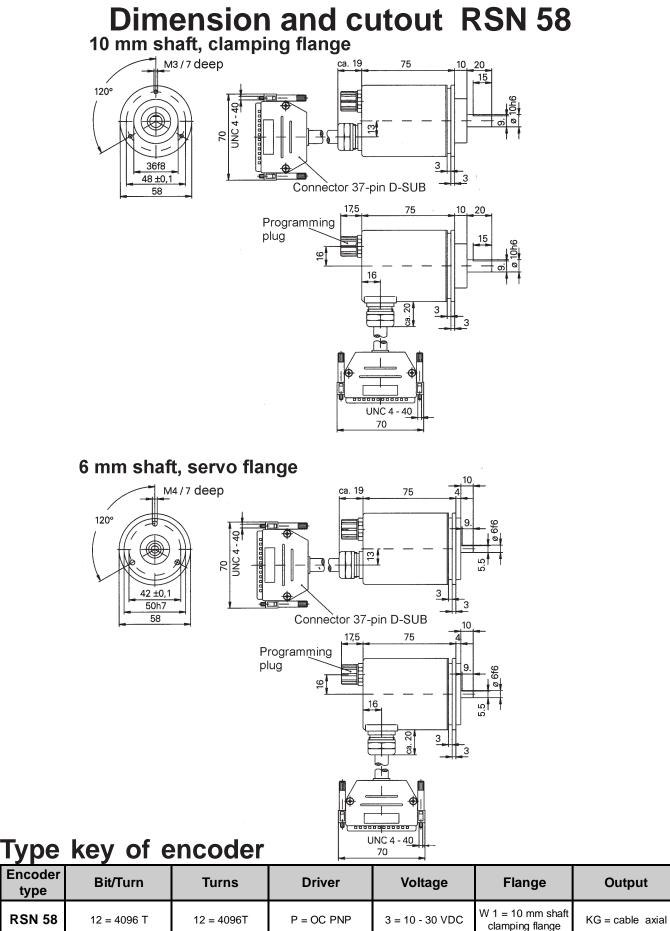
## Condition for programming:

- PC with RS 232 interface and Windows system software
- Programming software ProGeber and handbook
- Programming cable, which connected the absoluteencoder with the PC.

Commendation: Please use leads twisted in pairs for extension cables

### Connection assignment programming cable

	<u> </u>				
Encoder- function	5-pol. Encoder plug	Cable colour	PC-Connection 9pol. D-SUB	PC-Connection 25pol. D-SUB	
-	Pin 1	brown	-	-	
RxD	Pin 2	white	Pin 3	Pin 2	
GND	Pin 3	blue	Pin 5	Pin 7	
P/R Mode	Pin 4	black	Pin 5	Pin 7	
TxD	Pin 5	gray	Pin 2	Pin 3	
-	-	-	Br. 4-6	Br. 4-5	
-	-	-	Br. 7-8	Br. 6-20	



N = OC NPN

## Encoder

12

12

type

**RSN 58** 

**RSN 58** 

**RSN 58** 

Output

KS = cable radial

V 6 = 6 mm shaft

servo flange

3

For your notes: