ECBS



DESCRIPTION

Multi purpose electronic code switch with flexibility in detent angeles.

Full flexibility in output signal as Binary or Gray-Code and many connecting versions.

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TECHNICAL DATA

CONSTRUCTION AND MECHANICAL DATA

DETENT ANGLE	11,25°
DETENT GRADUATION	32 per 360° rotation
STOP	Fixed stop with 23 positions
MOUNTING	Central mounting
DETENT MECHANISM	Mechanic
DETENT TORQUE WITH INDEX	Min. 2,5 Ncm; Typ. 3,5 Ncm; Max. 4,5 Ncm
STOP STRENGTH	150 Ncm
FASTENING TORQUE MAX.	250 Ncm
SHAFT LENGTH	Acc. drawing
SHAFT DESIGN	Acc. drawing

ELECTRICAL DATA

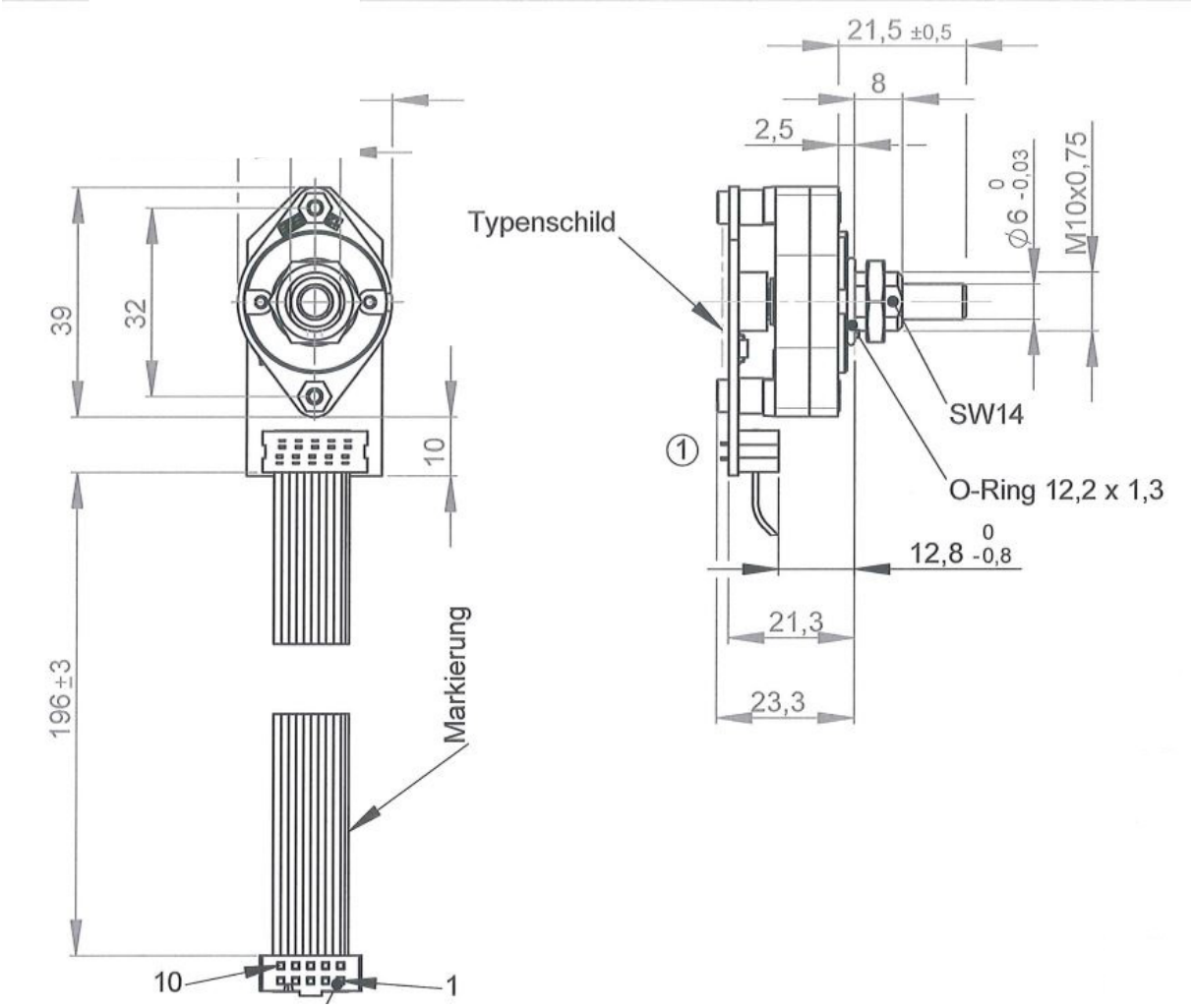
OPERATION VOLTAGE	Min. 3,6V DC Typ. 5,0V DC Max. 5,5V DC
CURRENT CONSUMPTION	Min. 10mA; Typ. 15mA; Max. 20mA (without load) Low-Signal: 6mA
OUTPUT SIGNAL	High Signal: Open collector via Pull-Up 10kOhm on Vcc Low Signal: 0,4 V
SHORT CIRCUIT PROTECTION	Not available
REVERSE POLARITY PROTECTION	Not available
CONNECTOR	Acc. drawing

ENVIRONMENTAL CONDITIONS

OPERATING TEMPERATURE	-25°C … +85°C
STORAGE TEMPERATURE	-30°C …. +90°C

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DRAWINGS / OTHER INFORMATION



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PINOUT

PIN	FUNCTION
1	Reserved
2	Reserverd
3	GND
4	Reserved
5	VCC
6	Value 16
7	Value 8
8	Value 4
9	Value 2
10	Value 1

5. Code Table

„0“ = Pegel 0V

„1“ = open Collector

Position	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10
1	1	1	1	1	0
2	1	1	1	0	0
3	1	1	1	0	1
4	1	1	0	0	1
5	1	1	0	0	0
6	1	1	0	1	0
7	1	1	0	1	1
8	1	0	0	1	1
9	1	0	0	1	0
10	1	0	0	0	0
11	1	0	0	0	1
12	1	0	1	0	1
13	1	0	1	0	0
14	1	0	1	1	0
15	1	0	1	1	1
16	0	0	1	1	1
17	0	0	1	1	0
18	0	0	1	0	0
19	0	0	1	0	1
20	0	0	0	0	1
21	0	0	0	0	0
22	0	0	0	1	0
23	0	0	0	1	1

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SAFETY AND WARNING NOTES

The components are solely for use by technically qualified, professional electronics experts who are familiar to the dangers and application risks associated with handling electrical mechanical components, systems and subsystems. User assumes all responsibility and liability for proper and safe handling and use and agrees with the restrictions and disclaimer at the end of this document.

DISCLAIMER

The information contained in this document is for general guidance only. The user is responsible for determining the suitability of the technical information referred herein for his application. On delivery of the component, EBE is only obliged to implement those properties set out and agreed upon in this document. Further properties are not included. No guarantee is given. The component has been designed for installation in our customer's products. Manufacturer of the resulting product and consequent liability according to the Product Liability Act lies with the customer. Warranty is limited to below mentioned extent.

The component is not intended for installation in end products for medical, life-saving, or safety-related applications. The use of the component is also not permitted and expressly prohibited in vehicles of any kind (including trailers and watercraft), as a component in aerospace products (including radio transmitter for aerospace purposes), or in offshore structures.

User assumes all responsibility and liability to determine whether the component is subject to any applicable international, federal, state, or local laws and regulations related to user's handling and use of the component and, if applicable, user assumes all responsibility and liability for compliance in all respects with such laws and regulations.

Disclaimer for improper use

The manufacturer accepts no liability for damage resulting from improper, inappropriate, or non-compliant use of the component. Any liability for direct or indirect damage, consequential damage or loss resulting from improper use is excluded. The Customer (user) is obliged to use the component exclusively in accordance with the instructions and information given in this document.

The limitation of liability described above does not apply in the case of mandatory statutory liability such as under the German Product Liability Act (Produkthaftungsgesetz) or in the case that a guarantee is given or in the case of willful deceit or fraudulent misrepresentation or with regard to claims for an injury of the life or limb or health or in the case of intentional or grossly negligent breach of fundamental contractual duties (“wesentliche Vertragspflichten”).

REVISION

REVISION	DATE	DESCRIPTION
1.2	05.05.2026	Update legal notices
1.1	18.07.2023	Translation from German Data Sheet of 2108661 to English Version

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