

18mm Size Insulated Shaft Type Encoder

NEW
2010

EC18A Series

Highly waterproof encoder with heavy torque



Features

- Waterproof capability compliant with the IPX7 standard
- Heavy torque operation
- 12, 16 positions

Applications

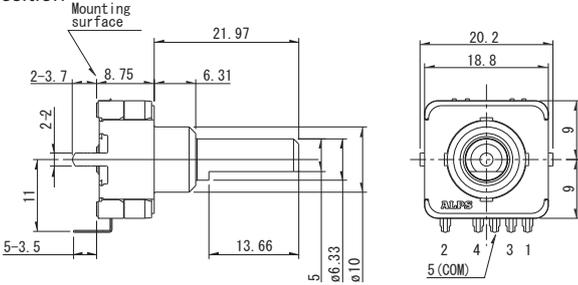
- Control panel of home appliances

Typical Specifications

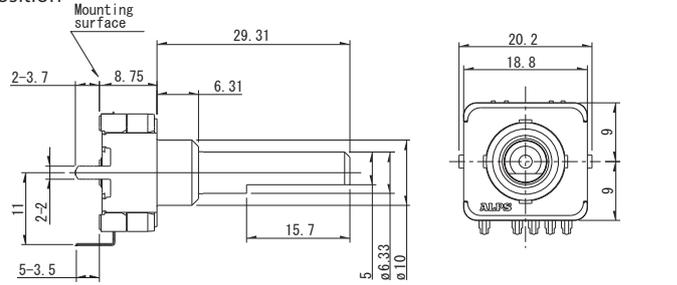
Items	Specifications
Operating life	30,000 cycles
Detent torque	60 ± 20 mN·m
Rating	1 mA 10 V DC
Operating temperature range	-20 °C to +60 °C
Position number	12, 16
Waterproof property	Compliant with IEC standard IPX7

Dimensions

12 Position

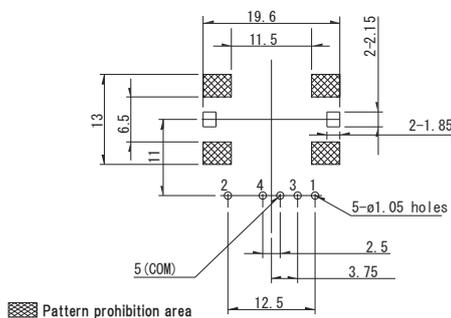


16 Position



Unit: mm

PC Board Mounting Hole Dimensions



4bit Output Code

Position NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Rotation angle (°)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
Terminal NO.	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2																
3																
4																
5 (COM)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Position NO.	1	2	3	4	5	6	7	8	9	10	11	12
Rotation angle (°)	0	30	60	90	120	150	180	210	240	270	300	330
Terminal NO.	1	•	•	•	•	•	•	•	•	•	•	•
2												
3												
4												
5 (COM)	•	•	•	•	•	•	•	•	•	•	•	•

Precautions when handling our products

- For the export of products which are controlled items subject to foreign and domestic export laws and regulations, you must obtain approval and/or follow the formalities of such laws and regulations.
- Products must not be used for military and/or antisocial purposes such as terrorism, and shall not be supplied to any party intending to use the products for such purposes.
- Unless provided otherwise, the products have been designed and manufactured for application in equipment and devices which are sold to end-users in the market, such as AV (audio visual) equipment, home electronic equipment, office and commercial electronic equipment, information and communication equipment or amusement equipment. The products are not intended for use in, and must not be used for, any application of nuclear equipment, driving control equipment for aerospace or any other unauthorized use. With the exception of the above mentioned banned applications, for applications involving high levels of safety and liability such as medical equipment, burglar alarm equipment, disaster prevention equipment and undersea equipment, please contact an Alps sales representative and/or evaluate the total system on the applicability. Also, implement a fail-safe design, protection circuit, redundant circuit, malfunction protection and/or fire protection into the complete system for safety and reliability of the total system.
- Before using products which were not specifically designed for use in automotive applications, please contact an Alps sales representative.

Cautions for using this catalog

- The specifications herein are an overview of the specifications. Obtain official specifications before use.
- The colors of the products in the catalog may slightly differ from those of the actual products.
- The external appearance, functions and other specifications herein may be changed for improvement and other reasons without prior notice. Furthermore, the products herein may discontinue without prior notice.
- TACT Switch is trademark or registered trademark of ALPS ELECTRIC CO., Ltd.
- All product names, company names and names of standards described in this catalog are trademarks or registered trademarks of their respective owners.
- The contents of this catalog are according to Alps Electric as of October 2010.
- This catalog is valid until the end of December 2011.

Inquiries about this product

Products Information Center
+81 (3) 5499-8154
Products Information Site
<http://www.alps.com/products/e/>

ALPS ELECTRIC CO., LTD.
1-7, Yukigaya-otsukamachi, Ota-ku, Tokyo, 145-8501, Japan