

**PART NUMBER:** ACZ11BRXE-XXXXD1-XXX

**DESCRIPTION:** mechanical incremental encoder

## ELECTRICAL SPECIFICATIONS

|                         |                              |
|-------------------------|------------------------------|
| output waveform         | Square wave                  |
| output signals          | A, B phase                   |
| current consumption     | 10 mA                        |
| output phase difference | T1, T3 $\geq$ 3.5ms          |
| supply voltage          | 5 V dc                       |
| output resolution (ppr) | 12, 15, 20                   |
| insulation resistance   | 300 V dc, 100M $\Omega$ min. |
| withstand voltage       | 300 V ac                     |

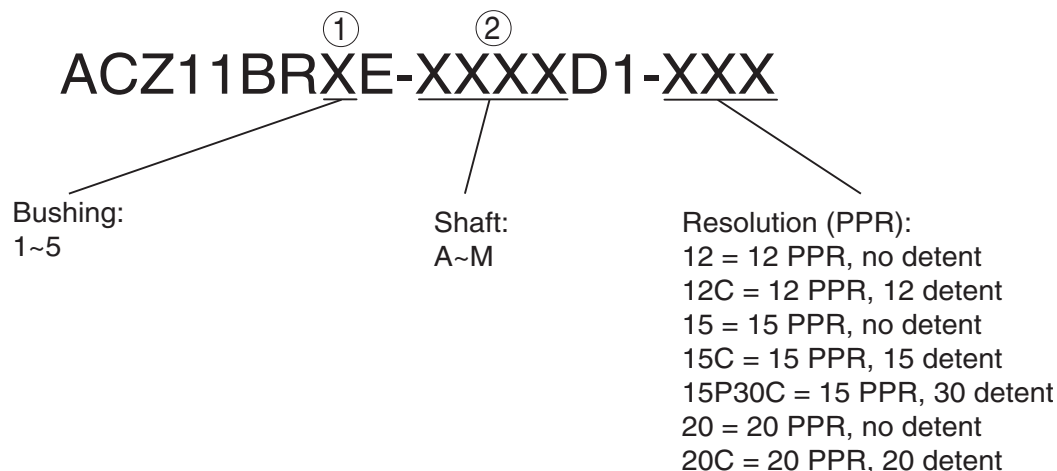
## MECHANICAL SPECIFICATIONS

|                               |                                                                         |
|-------------------------------|-------------------------------------------------------------------------|
| max shaft load, axial:        | 8kgf                                                                    |
| rotational torque             | with detent click: 140 $\pm$ 80gf•cm<br>with no click: 80 $\pm$ 20gf•cm |
| push switch operational force | 300~900gf•cm                                                            |
| push switch cycle life        | 50,000 cycles                                                           |
| rotational life               | 30,000 cycles                                                           |

## ENVIRONMENTAL SPECIFICATIONS

|                |                           |
|----------------|---------------------------|
| operating temp | -10° to +65° C            |
| storage temp   | -40° to +75° C            |
| humidity       | 85% RH                    |
| vibration      | 10~55 Hz. 0.75mm, 2 hours |

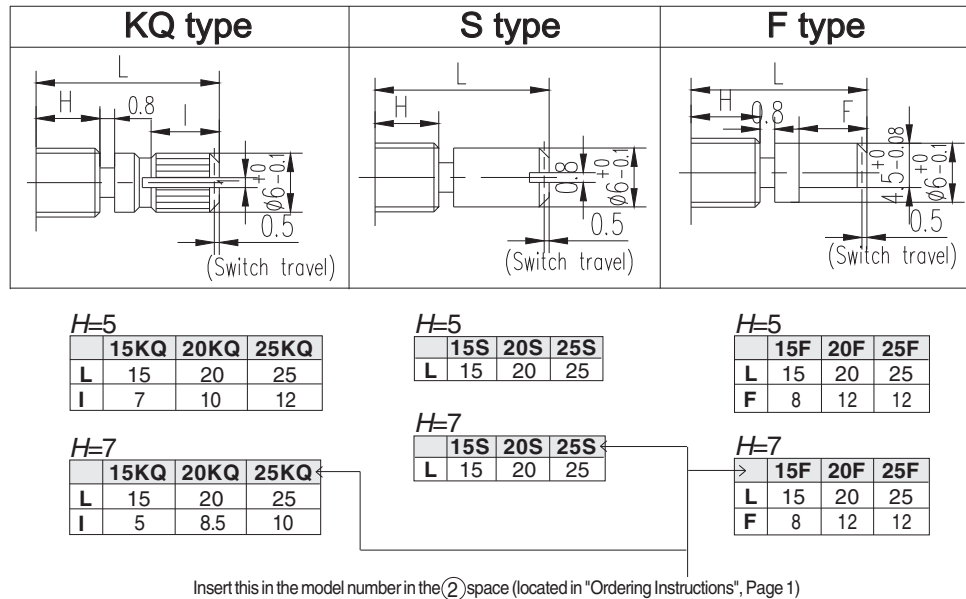
## ORDERING INSTRUCTIONS



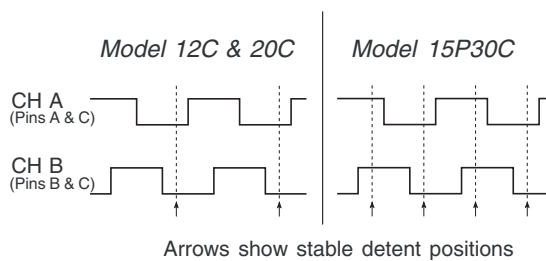
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## SHAFT OPTIONS



## OUTPUT WAVEFORM



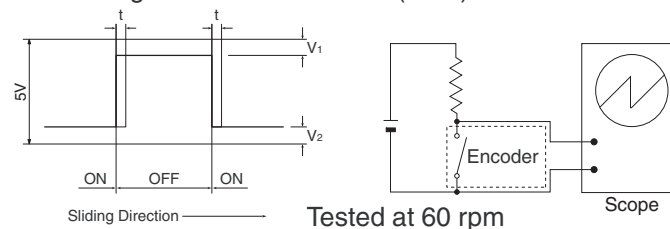
## BUSHING OPTIONS

Insert this in the model number in the ① space (located in "Ordering Instructions", Page 1)

| BUSHING    |   |  |
|------------|---|--|
| Condition  | N |  |
| 1 M7-P0.75 | 5 |  |
| 2 M7-P0.75 | 7 |  |
| 3 M7-P0.75 | 9 |  |
| 4 smooth   | 5 |  |
| 5 smooth   | 7 |  |

## SLIDING NOISE

t = Masking time to avoid chatter (5mS)  $V_1 = V_2 = 1V$  max.



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## MECHANICAL DRAWING

