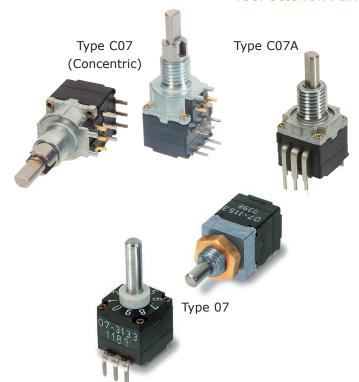
Coded Switches Overview



- rugged design
- lead free reflowable
- packaged for modern manufacturing methods
- easy to modify
- sealable up to IP 68 (2bar)

Our ability to adapt existing components to your application, makes Elma your preferred solution partner.



Technical Data

| Designation | Type 07 | | Type C07A | | Type C07 (Cond | centric) | |
|---|---|---|--------------------------------------|-------------------------------------|--|------------|--|
| Dimension | 10 x 10 mm | 10 x 10 mm | | 10 x 10 mm | | 10 x 10 mm | |
| Connection | THT (DIL) | | THT (DIL) | | THT (DIL) | | |
| Function (Code) | BCD BCD compl. HEX HEX compl. Gray Code 0 - F | (10 pos.) (10 pos.) (16 pos.) (16 pos.) (16 pos.) | HEX HEX compl. Gray Code 0 - F | (16 pos.) (16 pos.) (16 pos.) | HEX Gray Code 0 - F one pole 3 pos. c | | |
| Indexing angle | 22.5°, 36° | | 22.5° | | 22.5° | | |
| Processing | wave soldering reflow (on reque | est) | wave soldering reflow(on reques | st) | wave soldering reflow | | |
| Contact material | 3μm gold plated | | 3μm gold plated | | 3μm gold plated | | |
| Life expectancy: Switching cycles Rotations | > 10'000 cycles | | > 10'000 cycles | | > 10'000 cycles > 7'500 cycles | · | |
| Contact resistance | < 50 mΩ | | < 50 mΩ | | 16 pos. and 3 pos. | . max 1Ω | |
| | page 6-8 | | page 9 | | page 10-11 | | |
| Technical Data | page 60-64 | | page 65-67 | | page 68-70 | | |

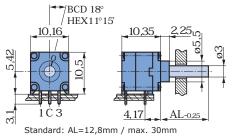
| The following rugged switches are | Type 04 | Type 06 | Type 08 | |
|---------------------------------------|------------|-------------|-------------|--|
| also available in coded (binary code) | coding 0-9 | coding 0-11 | coding 0-11 | |
| versions | page 22 | page 24 | page 28 | |

Coded Switches Type 07

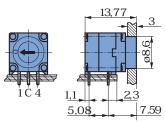
- 10/16 position coded output
- >10'000 switching cycles
- up to 3,5 Ncm torque
- small and rugged
- steel spindle-shaft
- sealable up to IP 68 (2bar)
- reflow version available



Horizontal



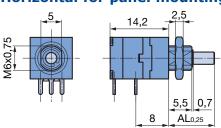
Front panel operation



Drilling diagram
View from component side



Horizontal for panel mounting



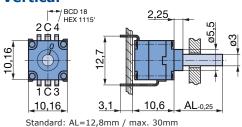
Standard: AL=11,5mm / max. 26mm

5D11

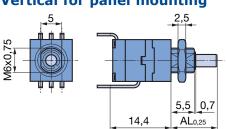
Front panel cut out

Waterproof (WD)
O-Ring and nut supplied

Vertical



Vertical for panel mounting

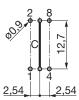


Standard: AL=11,5mm / max. 26mm



Front panel cut out

Drilling diagram View from component side

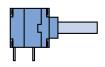


Possible modifications on request

- special type of shaft (length, form)
- special torque
- panel mounting
- waterproof
- different number of positions (internal stop)
- anti-static packaging
- · shortened bush
- tape & reel packaging

Type 07 Horizontal



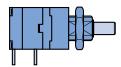


With spindle-shaft

| Coding | Switching function | Position | Indexing angle | with end stop | endless rotating |
|------------|--------------------|----------|----------------|---------------|------------------|
| BCD | shorting | 10 (0-9) | 36° | 07-1133 | 07-1033 |
| | non-shorting | 10 (0-9) | 36° | 07-1134 | 07-1034 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-1143 | 07-1043 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-1153 | 07-1053 |
| | non-shorting | 16 (0-F) | 22,5° | 07-1154 | 07-1054 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-1163 | 07-1063 |
| Gray code | shorting | 16 (0-F) | 22,5° | 07-1173 | 07-1073 |

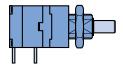
packing unit : 50 pieces

With spindle-shaft /with end stop / panel mounting / waterproof IP 68/2bar



| Coding | Switching function | Position | Indexing angle | with end stop |
|------------|--------------------|----------|----------------|----------------|
| BCD | shorting | 10 (0-9) | 36° | 07-1133-300000 |
| | non-shorting | 10 (0-9) | 36° | 07-1134-300000 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-1143-300000 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-1153-300000 |
| | non-shorting | 16 (0-F) | 22,5° | 07-1154-300000 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-1163-300000 |
| Gray code | shorting | 16 (0-F) | 22,5° | 07-1173-300000 |

O-Ring and nut supplied packing unit: 50 pieces



With spindle-shaft / endless rotating / panel mounting / waterproof IP 68/2bar

| Coding | Switching function | Position | Indexing angle | endless rotating |
|------------|--------------------|----------|----------------|------------------|
| BCD | shorting | 10 (0-9) | 36° | 07-1033-300000 |
| | non-shorting | 10 (0-9) | 36° | 07-1034-300000 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-1043-300000 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-1053-300000 |
| | non-shorting | 16 (0-F) | 22,5° | 07-1054-300000 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-1063-300000 |
| Gray code | shorting | 16 (0-F) | 22,5° | 07-1073-300000 |

O-Ring and nut supplied

Screwdriver actuation



| Coding | Switching function | Position | Indexing angle | with end stop | endless rotating |
|------------|--------------------|----------|----------------|---------------|------------------|
| BCD | shorting | 10 (0-9) | 36° | 07-0133 | 07-0033 |
| | non-shorting | 10 (0-9) | 36° | 07-0134 | 07-0034 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-0143 | 07-0043 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-0153 | 07-0053 |
| | non-shorting | 16 (0-F) | 22,5° | 07-0154 | 07-0054 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-0163 | 07-0063 |
| Gray code | shorting | 16 (0-F) | 22,5° | 07-0173 | 07-0073 |

packing unit: 50 pieces

packing unit: 50 pieces

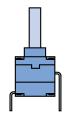


Front panel operation / screwdriver actuation

| • | • | | | | |
|------------|--------------------|----------|----------------|---------------|------------------|
| Coding | Switching function | Position | Indexing angle | with end stop | endless rotating |
| BCD | shorting | 10 (0-9) | 36° | 07-4133 | 07-4033 |
| | non-shorting | 10 (0-9) | 36° | 07-4134 | 07-4034 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-4143 | 07-4043 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-4153 | 07-4053 |
| | non-shorting | 16 (0-F) | 22,5° | 07-4154 | 07-4054 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-4163 | 07-4063 |
| Grav code | shorting | 16 (0-F) | 22.5° | 07-4173 | 07-4073 |

packing unit: 50 pieces

Type 07 Vertical



With spindle-shaft

| Coding | Switching function | Position | Indexing angle | with end stop | endless rotating |
|------------|--------------------|----------|----------------|---------------|------------------|
| BCD | shorting | 10 (0-9) | 36° | 07-3133 | 07-3033 |
| BCD | non-shorting | 10 (0-9) | 36° | 07-3134 | 07-3034 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-3143 | 07-3043 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-3153 | 07-3053 |
| | non-shorting | 16 (0-F) | 22,5° | 07-3154 | 07-3054 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-3163 | 07-3063 |
| Gray code | shorting | 16 (0-F) | 22,5° | 07-3173 | 07-3073 |

packing unit: 50 pieces

With spindle-shaft / with end stop / panel mounting / waterproof IP 68/2bar

| Coding | Switching function | Position | Indexing angle | with end stop |
|------------|--------------------|----------|----------------|----------------|
| BCD | shorting | 10 (0-9) | 36° | 07-3133-300000 |
| BCD | non-shorting | 10 (0-9) | 36° | 07-3134-300000 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-3143-300000 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-3153-300000 |
| ILEX | non-shorting | 16 (0-F) | 22,5° | 07-3154-300000 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-3163-300000 |
| Gray code | shorting | 16 (0-F) | 22,5° | 07-3173-300000 |

O-Ring and nut supplied packing unit: 50 pieces

With spindle-shaft / endless rotating / panel mounting / waterproof IP 68/2bar

| Coding | Switching function | Position | Indexing angle | endless rotating |
|---------------------------------------|--------------------|----------|----------------|------------------|
| D.C.D. | shorting | 10 (0-9) | 36° | 07-3033-300000 |
| BCD | non-shorting | 10 (0-9) | 36° | 07-3034-300000 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-3043-300000 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-3053-300000 |
| I I I I I I I I I I I I I I I I I I I | non-shorting | 16 (0-F) | 22,5° | 07-3054-300000 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-3063-300000 |
| Gray code | shorting | 16 (0-F) | 22,5° | 07-3073-300000 |

O-Ring and nut supplied packing unit: 50 pieces

Screwdriver actuation

| Sci Civalitici accadion | | | | | |
|-------------------------|--------------------|----------|----------------|---------------|------------------|
| Coding | Switching function | Position | Indexing angle | with end stop | endless rotating |
| BCD | shorting | 10 (0-9) | 36° | 07-2133 | 07-2033 |
| BCD | non-shorting | 10 (0-9) | 36° | 07-2134 | 07-2034 |
| BCD compl. | shorting | 10 (0-9) | 36° | 07-2143 | 07-2043 |
| HEX | shorting | 16 (0-F) | 22,5° | 07-2153 | 07-2053 |
| ILEX | non-shorting | 16 (0-F) | 22,5° | 07-2154 | 07-2054 |
| HEX compl. | shorting | 16 (0-F) | 22,5° | 07-2163 | 07-2063 |
| Gray code | shorting | 16 (0-F) | 22,5° | 07-2173 | 07-2073 |

packing unit : 50 pieces

