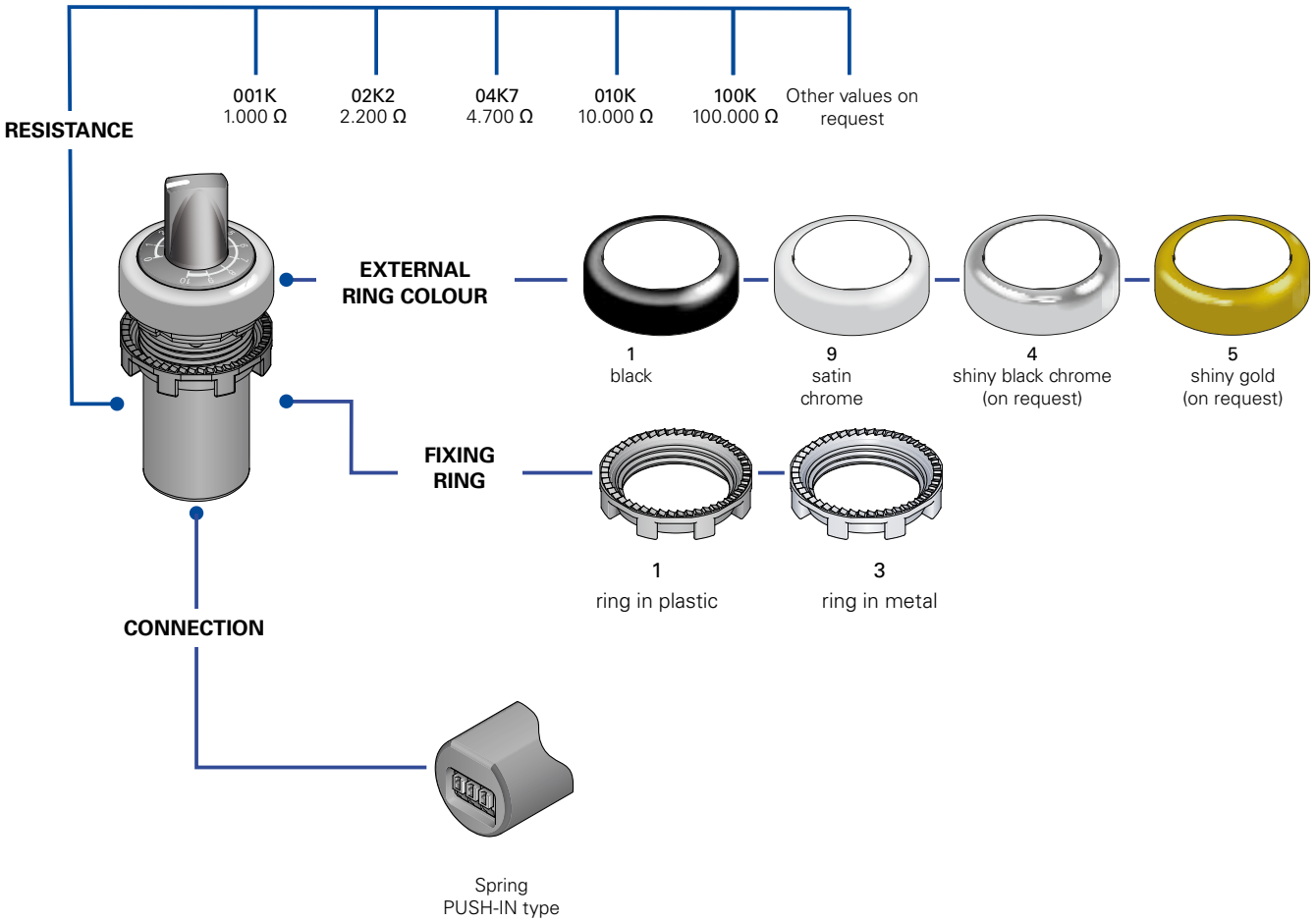
Selection diagram



Code structure

E6 1DM02K2-D111

Fixing ring and shaped ring	
1	ring in plastic
2	ring in plastic and shaped ring
3	ring in metal
4	ring in metal and shaped ring

Resistance	
001K	1.000 Ω
02K2	2.200 Ω
04K7	4.700 Ω
010K	10.000 Ω
100K	100.000 Ω

Other values on request

Ring colour	
1	black (standard)
9	satin-finish chrome (standard)
4	shiny black chrome (on request)
5	shiny gold (on request)

Attention! The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.

Main features

- Fully integrated potentiometer in monolithic body
- Protection degree IP67
- Rotative potentiometer with Cermet technology
- 3-pole PUSH-IN type spring-connection system
- Numerous resistance values

Markings and quality marks:

CE

In conformity with standards:
IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1, UL 508, CSA 22-2 N°14

In conformity with requirements requested by:
Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and Electromagnetic Compatibility 2004/108/EC.

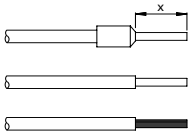
Technical data

General data

Protection degree:	IP67 according to IEC 60529
Ambient temperature:	-40°C +80°C
Mechanical endurance:	50.000 operations cycles
Mechanical stroke:	250°
Ring driving torque:	2 ... 2,5 Nm
Utilization requirements:	see page 3/98

Electrical data

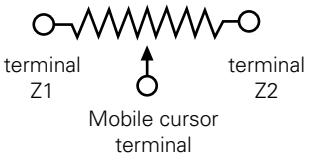
Resistive material:	Cermet
Operation:	linear
Resistance tolerance:	±10%
Cross section of solid leads, flexible leads with tip:	min 1 x 0,34 mm² (1 x AWG 24) max 1 x 1,5 mm² (1 x AWG 16)
Cross section of leads with pre-insulated tip:	min 1 x 0,34 mm² (1 x AWG 24) max 1 x 0,75 mm² (1 x AWG 18)
Connection system:	PUSH-IN type, spring-operated
Cable stripping length (x):	min: 8 mm max: 12 mm



Rated insulation voltage (Ui): 300 Vac

Resistance	Rated operation voltage Ue max	Rated operation current Ie max	Power (70 °C) max
1 kΩ	31 V	31 mA	1 W
2,2 kΩ	46 V	21 mA	1 W
4,7 kΩ	63 V	14 mA	1 W
10 kΩ	100 V	10 mA	1W
100 kΩ	316 V	3 mA	1W

High resistance values are available; contact our technical department



Integrated potentiometer

Thanks to its monolithic shape, it has been possible to integrate all the mechanical and electrical components needed for its end use inside the E6 series potentiometer body; it is therefore not necessary to assemble any other parts, such as knobs or trimmers, all that is required is to insert the circuit wires into the incorporated terminal board. Precise choices made in terms of design and materials have lead to the creation of an object featuring remarkable mechanical resistance when in operation and maximum protection preventing any liquids or foreign bodies from penetrating inside.
Moreover, the resistive element used is made of a composite ceramic and metal material, produced with the Cermet technology, which ensures remarkable stability and constancy in the resistance value set.

Protection degree IP67

IP67

This series potentiometers all have protection degree IP67, this way guaranteeing a total protection also in hard environmental conditions.

PUSH-IN type spring-operated connection

The potentiometer is provided with a 3-pole terminal board with a PUSH-IN type spring-operated connection. This technology allows a very handy quick wiring procedure, since the wire just needs to be inserted into the appropriate hole in order to be secured and to establish the electrical connection. The said operation can be carried out without the help of any tool, but simply using rigid or flexible wires with a crimped tip. Release is obtained by pressing the appropriate wire-releasing push-button.