Actuator with snap-action switching element

Switching system

Self-cleaning, double-break, snap-action switching system (with contact gap 2 x 1.5 mm).
Max. 2 normally closed or 2 normally open contacts, or one of each.

Material

Lens
Polymethylmethacrylate PMMA, as per UL 94 HB, Polycarbonate (PC), as per UL 94 V0

Front bezel
Polyphenylenoxide (PPO)

Material of contact
Hard silver

Actuator housing
Polyamide (PA), Polytherimide (PEI)

Mechanical characteristics

Terminals
Screw terminal (with self-lifting clip):
Max. wire cross-section 2 x 2.5 mm²
Max. wire cross-section of stranded cable 2 x 1.5 mm²
Plug-in terminal 6.3 x 0.8 mm

Actuating force
with 1 switching element 3.6 N ±0.3 N
with 2 switching elements 6.8 N ±0.3 N

Actuating travel
5.5 mm ±0.2 mm

Travel
3 mm

Rebound time
≤ 3 ms

Mechanical lifetime
Illuminated pushbutton 1 million operations
Keylock switch 40,000 operations

Electrical characteristics

Contact resistance
Starting value ≤ 50 mΩ, as per IEC 60512-2-4

Isolation resistance
≥ 100 MΩ between all contacts at 100 VDC, as per IEC 60512-3-1

Switch rating

Power rating
min. 12 VAC, 50 mA
max. 400 VAC, 10 A

Switch rating AC (cos φ = 0.7), service category AC-11
Voltage 125 VAC 250 VAC 380 VAC
Current 8 A 5 A 3 A
Operations ≥ 100,000

Switch rating DC (inductive) L/R = 30 ms, service categorie DC-11
Voltage 24 V 60 V 110 V 220 V
Current 6 A 1.5 A 0.4 A 0.2 A
Operations ≥ 100,000

Electric strength
2500 VAC, 50 Hz, 1 min. between all terminals and earth, as per IEC 60512-2-11.

Environmental conditions

Storage temperature
-40 °C … +95 °C

Service temperature
-25 °C … +85 °C

Protection degree
Terminal/case IP 20
Front IP 65 as per IEC 60529

Shock resistance
50 g for 11 ms, as per IEC 60512-4-3

Vibration resistance (sinusoidal)
10 g at 10 Hz … 2000 Hz, amplitude 0.75 mm, as per IEC 60512-4-4

Approvals

Approbations
CB (IEC 61058)
CSA
ENEC (EN 61058)
UL

Declaration of conformity
CE

EAO reserves the right to alter specifications without further notice.