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THE SERIES IS3600 SWITCH
OFFERS MAXIMUM AND OPTIMUM
VISIBILITY AT SUNLIGHT WITH
MINIMUM POWER LEVELS. AND
AT NIGHT, THERE IS ZERO LIGHT
LEAKAGE THROUGH THE LENGTH
OF THE SWITCH.


## The Innovative Switch Company

Cole Instrument Corp. is proud to offer a rotary switch with illumination at the shaft front. This can be used to light up any part of the rotary switch's knob. An LED (Light Emitting Diode) or an incandescent lamp is on the back end of the switch body, and a light pipe or fiber optics brings the concentrated light through the switch to the shaft front.

The light can meet most chromaticity or intensity requirements. The light can be an LED or a TI incandescent lamp.

The switch features good heat sinking capabilities, and delivers up to twice the light intensity of units at equivalent power levels.

On light failure, relamping can be done by the customer. Cole can provide the replacement assembly.

This switch can be used in airborne, shipboard, and submarine panel control displays, and meets the brightness requirements of high altitude aircraft, as well as the MIL-DTL-90 I C shock requirement for submarines and ships.

IS3600 SERIES
Illuminated Shaft, One Inch Diameter Body

## IS3600 FEATURES

- Ball Bearing Smooth De- • Flux Contamination Free tent Indexing • MIL-DTL-3786 Tested
- Constant Low Contact

Resistance

- Rugged, Medium Impact

Construction

- 6 Amp Power Switching
- I00,000 Plus Operations Life Cycle

Illuminated Shaft, One Inch Diameter Body


## ORDERING INFORMATION

Sample Code:
I36 30-1 12-1 S


Shorting Decks
(Omit for non-shorting)
Number of Decks
Number of Positions per Pole
Number of Poles
Degree Between Positions
Cole Basic Switch Number
Part Number for a I3630-112-1S, Illuminated Shaft, 3600
( 1 " body dia.), $30^{\circ}$ indexing, 1 pole per deck, 12 positions per pole, 1 deck, shorting.

## OPTIONS

The following options can be added to the standard switch. When ordering, simply add the letters after the basic part number.
A = Adjustable stops.
F = Fixed stop between the first and last position on a full-turn switch.
$\mathrm{G}=\mathrm{RFI}-\mathrm{EMI}$ shielding.
L = Low Level.
$\mathrm{P}=$ Panel and shaft seals.
$\mathrm{S}=$ Shorting (Available in all Configurations).
Y = Optional . 432 Non-Turn Washer.
Screw Terminals Available. (Contact Factory for Special Part Number).

## Illuminated Shaft, One Inch Diameter Body

## Series IS3600 Technical Data

| Specification | Unit | Value | Note: |
| :---: | :---: | :---: | :---: |
| Military Specifications |  | MIL-DTL-3786 style SR04 |  |
| Continuous (Non-Switching) Current Carrying Capacity | Amps | 10 |  |
| Switching Current Capacity at 28 VDC resistive | Amps | 6 | at Atmospheric pressure with $85^{\circ} \mathrm{C}$ and at reduced Barometric pressure with $25^{\circ} \mathrm{C}$ |
| Switching Current Capacity at 115 VAC resistive | Amps | 6 |  |
| Switching Current Capacity at 28 VDC inductive (2.8 H.) | Amps | 3 |  |
| Low Level max. capacity | mA | 10 | at 30 millivolts DC max. |
| Dielectric Strength, min. | VRMS | 1000 |  |
| Contact resistance, max. (initial) | milliohms (m) | 5 |  |
| Contact resistance, max. (after life) | milliohms (m) | 20 |  |
| Insulation resistance, min. (initial) | megaohms (M 2 ) |  | at 100 VDC |
| Insulation resistance, min. (after life) | megaohms (M ) $^{\text {) }}$ | 60,000 | at 100 VDC |
| Switching Life | cycles | 25,000 | switching 5 amps at 120 VAC. |
| Mechanical Life | cycles | 100,000 |  |
| Rotational Torque, min. | inch ounces | 16 |  |
| Rotational Torque, max. | inch ounces | 80 |  |
| Mounting Ferrule Strength | inch pounds | 15 |  |
| Weight | grams | 48 |  |
| Molded Parts |  | thermoplastic |  |
| Contact Surfaces |  | Silver | Gold plate option |
| Altitude | feet | 80000 | typical pressure at 80,000 feet: 0.4 psi |
| Temperature, min. | degrees Celsius | -55 |  |
| Temperature, max. | degrees Celsius | 125 |  |
| Vibration Tested |  | Per MIL-DTL-3786 | Mil-Std-202, Method 204, test condition B, vibration grade 3 |
| Impact Shock, Medium |  | Meets | MIL-STD 202; Method 213 |
| Impact Shock, High |  | Meets | at 100g, MIL-STD 202, Method 207 |
| Moisture Resistant |  | Meets | MIL-STD 202; Method 106 |
| Salt Spray Resistant |  | Meets | MIL-STD 202, Method 101, Condition "B" |
| Explosion Proof |  | Meets | MIL-STD 202, Method 109 |
| Immersion |  | Meets | 3 feet water, MIL-STD-202, method 104, test condition "C" |
| EMI/RFI |  | Meets | MIL-DTL-3786, 2 ohms shaft to ground max. |
| LED Specifications |  |  |  |
| Hewlett Packard P/N |  |  | HLMA-KH00 |
| Current | Amps | 0.02 |  |
| Voltage | VDC | 2.4 |  |
| Brightness | MCD | 200 | 35 min |
| Wavelength | mm | 615 |  |

