

TWS(φ25)SERIES ILLUMINATED SELECTOR SWITCH

TYPE ASLS2◇ O6 □□ DN ※
 Operation type — (◇) — (O) — (□) — (□) — (DN) — (※)
 Rated voltage — (O) — (□) — (□) — (DN) — (※)
 Illuminated color — (※)
 Contact arrangement — (DN) — (※)

 Approved by M.Fujimoto

 Checked by Y.Hanaoka

 Written by R.Guo

1. Applicable standard

JIS C 8201-5-1
 IEC60947-5-1
 EN 60947-5-1 (TUV Approval)
 UL508 (UL Listing)
 CSA C22.2 No.14 (CSA Certified)
 GB/T14048.5(CCC Certification)

2. Operating conditions

- | | |
|-------------------------|-----------------------------|
| (1) Ambient temperature | -25 to +50°C (no freezing) |
| (2) Relative humidity | 45 to 85% (no condensation) |
| (3) Storage temperature | -40 to +80°C (no freezing) |

3. Ratings

- | | |
|---|------|
| (1) Rated insulation voltage | 600V |
| (2) Thermal current | 10A |
| (3) Rated operating voltage and rated operating current | |

Rated operating voltage		24V	48V	50V	110V	220V	440V
Rated operating current	A	Resistive load (AC12)	10A	—	10A	10A	2A
	C	Inductive load (AC15)	10A	—	7A	5A	1A
	D	Resistive load (DC12)	10A	5A	—	2.2A	—
	C	Inductive load (DC13)	5A	2A	—	1.1A	—

Note) The operating current is classified according to the JIS C 8201-5-1 closed-circuit and breaking current capacities.

- | | |
|---|---|
| (4) Minimum applicable load (reference value) | 3V AC/DC, 5mA |
| (5) Rated voltage — (O) | 100/110V AC (1), 115/120V AC (12), 200/220V AC (2)
230/240V AC (24), 380V AC (38),
400/440V AC (4), 480V AC (48), |

4. Constructions

- | | |
|--|---|
| (1) Outside view | See attached sheet |
| (2) Degree of protection | |
| (a) Operation units (panel front side) | IP54 |
| (b) Contact block | IP20 |
| (c) Lump terminal | Terminal cover integral structure |
| (3) Operation type — (◇) | Maintained(Blank), Spring return from right(1),
Spring return from left(2) |
| (4) No. of position | 2 |
| (5) Angle | 90° |
| (6) Operator style | Knob(Black) |

- (7) Contact arrangement — (□□) 1a-1b(11), 2a(20), 2b(02), 2a-2b(22), 4a(40)
- (8) Illuminated color —(※) Red(R), Amber(A), Green(G), Yellow(Y), Blue(S), Pure white(PW)
- (9) Included LED lamp LSRD-6 (See attached sheet)
- (10) Lamp base BA9S
- (11) Terminal style M3.5 terminal screw +/- screw head
- (12) Applicable wire / Recommended tightening torque

Applicable wire		Maximum number of installed	Recommended tightening torque(N·m)	Remarks
Solid wire	φ0.5~1.6mm(AWG14~22)	2	1.0~1.3	
	φ1.7~2.0mm(AWG12)	1	1.2~1.3	It's possible to connect to only contact terminals
Strand wire	0.3~2.0mm ² (AWG14~22)	2	1.0~1.3	
	2.1~3.5 mm ² (AWG12)	1	1.2~1.3	It's possible to connect to only contact terminals

- (13) Panel thickness 0.8~6mm
- (14) Panel cut-out $\phi 25.5^{+0.5}$ mm

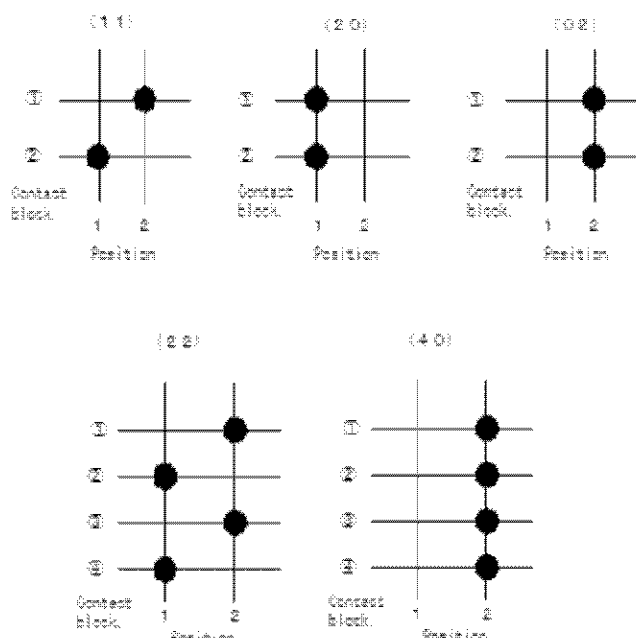
5. Characteristics

- (1) Contact resistance 50mΩ maximum (initial value)
- (2) Insulation resistance 100MΩ minimum (measured with a 500V DC megger)
- (3) Dielectric strength 2,500V AC, 1minute
- (4) Vibration resistance
- (a) Operating extremes Frequency 5 to 55Hz, Amplitude 0.5mm
- (b) Damage limits Frequency 30Hz, Amplitude 1.5mm
- (5) Shock resistance
- (a) Operating extremes 100m/s²
- (b) Damage limits 1,000m/s²

6. Life

- (1) Mechanical life(without load) 500,000 operation minimum
- (2) Electrical life (rated load) 250,000 operation minimum
(Operating frequency: 1,200 operations/hour maximum Duty Rate:40%)

□ CONTACT ARRANGEMENT



SPECIFICATION

No. ISA4590
Date. July -4, 2022
Approved by Y.Onishi
Checked by Tos.Matsumoto
Written by Tom.Matsumoto

MINIATURE LED LAMP

TYPE LSRD- ○
└── Rated voltage

1. Operating conditions

- (1) Ambient temperature -25 to +55°C (no freezing)
(Based on applicable IDEC control unit in which this product is mounted)
- (2) Relative humidity 45 to 85% (no condensation)
- (3) Altitude 2000m maximum

2. Ratings

Rated voltage —(○)		24V AC/DC (2)	12V AC/DC (1)	6V AC/DC (6)
Operating voltage		24V AC/DC±10%	12V AC/DC±10%	6V AC/DC±10%
Rated current	DC	7mA	7mA	10mA
	AC	8mA	8mA	14mA

3. Constructions

- (1) Outside view, equivalent circuit See attached sheet
- (2) Base Based on JIS C7709 BA9S/13
- (3) Lamp base surface preparation SuCu plating
- (4) Weight Approx.2g

4. Characteristics

- (1) Vibration Resistance, Shock Resistance Based on applicable IDEC control unit in which this product is mounted
- (2) Chromaticity range (X, Y) (0.302, 0.331)-(0.306, 0.310)-(0.323, 0.326)-(0.320, 0.350)