

F

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A

WSA48M - 1 2 3 4 5 6

| SWITCH FUNCTION CODE | SWITCH FUNCTION DESCRIPTION          |
|----------------------|--------------------------------------|
| 1                    | MECHANICAL,MOMENTARY,SOLDER TERMINAL |
| A                    | MECHANICAL,MOMENTARY,NO/NO WIRELEADS |
| C                    | MECHANICAL,MOMENTARY,NC/NC WIRELEADS |
| E                    | MECHANICAL,MOMENTARY,NC/NO WIRELEADS |

| HOUSING MATERIAL CODE | HOUSING DECSRIPTION       |
|-----------------------|---------------------------|
| 1                     | STAINLESS STEEL           |
| 2                     | ZINC ALLOY, CHROME PLATED |
| 3                     | AL ALLOY ANODIZED BLACK   |

| ILLU. TYPE CODE | ILLUMINATION TYPE DESCRIPTION                     |
|-----------------|---------------------------------------------------|
| 0               | NON.-ILLUMINATION                                 |
| 1               | CENTER SPOT ILLUMINATION (STAINLESS HOUSING ONLY) |
| 2               | RING ILLUMINATION                                 |
| 3               | POWER/STANDBY SYMBOL ILLUMINATION                 |

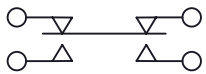
| LED COLOR CODE | LED COLOR |
|----------------|-----------|
| N              | NONE      |
| R              | RED       |
| G              | GREEN     |
| B              | BLUE      |
| Y              | YELLOW    |
| W              | WHITE     |

| LED INLET VOLTAGE CODE |           | LED INLET VOLTAGE |
|------------------------|-----------|-------------------|
| NON-WIRELEADS          | IF BLANK* | (SEE NOTE)        |
| WIRELEADS              | IF BLANK* | (SEE NOTE)        |
|                        | 05        | 5V                |
|                        | 12        | 12V               |
|                        | 24        | 24V               |

| ANY CODE  | DESCRIPTION                  |
|-----------|------------------------------|
| IF BLANK* | NA                           |
| xxx       | PER CUSTOMER SPECIAL REQUEST |

MECHANICAL CHARACTERISTICS:

SWITCH CIRCUITRY: SPDT-DB  
SWITCH ACTION: MOMENTARY (PER CHART)  
PRE-TRAVEL: 1.27 mm NOMINAL  
OVER-TRAVEL: 0.254 mm NOMINAL  
TOTAL TRAVEL: 1.524 mm NOMINAL  
OPERATING FORCE: 525 g [5.15 N] NOMINAL  
RELEASEING FORCE: 340 g [3.45 N] NOMINAL  
PANEL THICKNESS: 0.5 - 4.5mm  
CONTACTS: SILVER  
NUT TORQUE FORCE: MAX. 11.5 kgf\*cm [ 10 LB\*in]



SPDT-DB

SCHEMATIC

ELECTRICAL LIFE:

5A@28VDC, 5A@125/250VAC , 25K CYCLES NOMINAL

MECHANICAL LIFE:

MOMENTARY: 1,000,000 CYCLES NOMINAL

ENVIROMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE: -40°C to +85°C[ -40°F to +185°F ]  
IP67 COMPLIANT

ELECTRICAL SPECIFICATIONS:

DIELECTRIC STRENGTH: 1,000VAC  
INSULATION RESISTANCE: 1G OHM  
CONTACT RESISTANCE:  
50m /250m OHMS MAX. INITIAL(NON-WIRELEAD / WIRELEADS)

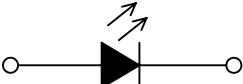
LED SPECIFICATIONS:

SEE LED SPECIFICATION

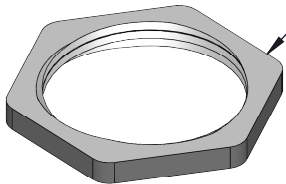
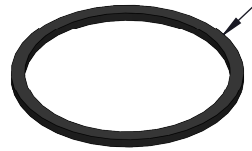
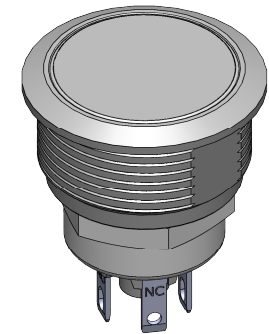
CERTIFICATION: UL 61058

\* NOTE:

1.SUPPLY HEX NUT AND SEALING WASHER BULK IN PACKED

| LED SPECIFICATION                                                                |           |                                                                                      |           |         |
|----------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|-----------|---------|
| LED CODE                                                                         | LED Color | CIRCUITRY                                                                            | Vf(VDC)   | If (mA) |
|                                                                                  |           |                                                                                      | Color     |         |
| R                                                                                | RED       |  | 1.8 ~ 2.5 | 20      |
| B                                                                                | BLUE      |                                                                                      | 2.8 ~ 3.5 | 20      |
| G                                                                                | GREEN     |                                                                                      | 2.8 ~ 3.5 | 20      |
| Y                                                                                | YELLOW    |                                                                                      | 1.8 ~ 2.5 | 20      |
| W                                                                                | WHITE     |                                                                                      | 2.8 ~ 3.5 | 20      |
| Notes:<br>Hand Soldering Temperature (4mm above from Body) : 320°C for 3 seconds |           |                                                                                      |           |         |

| WIRELEADS SPECIFICATION |                                         |             |             |           |       |
|-------------------------|-----------------------------------------|-------------|-------------|-----------|-------|
| WIRELEADS TYPE          | WIRELEADS SPECIFICATION                 | SW TERMINAL | SW TERMINAL | LED COLOR |       |
|                         |                                         | NO          | NC          | +         | -     |
| ILLUMINATION            | SW :AWG24 / UL1007<br>LED: AWG26/UL1007 | BLUE        | YELLOW      | RED       | BLACK |
| NON-ILLUMINATION        |                                         | BLUE        | YELLOW      | -         | -     |



SEALING WASHER  
T=0.80  
(SUPPLIED IN BULK)

SPECIAL HEX NUT  
HEX 22.1 ,T=2.3  
(SUPPLIED IN BULK)

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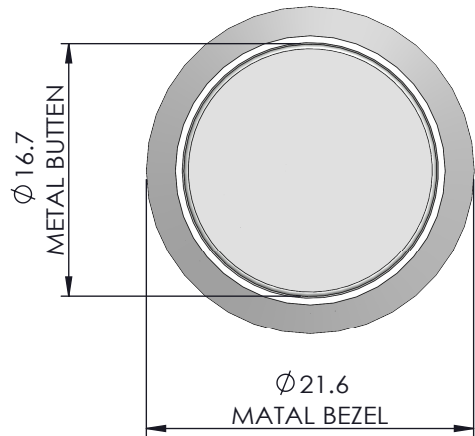
A

|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                                                 |                                                                                                   |  |  |  |                                                                                       |            |                |          |                |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------|------------|----------------|----------|----------------|--------------|
| DWG TYPE<br>SALES DRAWING                                                                                                                                                                                                                                                                                                                                                                                                      | DRAWN<br>c.c.     | TOLERANCES:<br>UNLESS OTHERWISE NOTED<br>X.X ± 0.5<br>X.XX ± 0.2<br>ANGULAR ±1°                                 | DWG TITLE<br>WSA48M-MECHANICAL MOMENTARY, NONE/<br>CENTER SPOT/RING/POWER-STANDBY<br>ILLUMINATION |  |  |  |  |            |                |          |                |              |
| STATUS<br>RELEASE                                                                                                                                                                                                                                                                                                                                                                                                              | REVIEW<br>--      |                                                                                                                 | DWG NO.<br>WSA48M-1,A,C,E                                                                         |  |  |  |                                                                                       |            |                |          |                |              |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                | DATE<br>2017/6/21 |                                                                                                                 |                                                                                                   |  |  |  |                                                                                       |            |                |          |                |              |

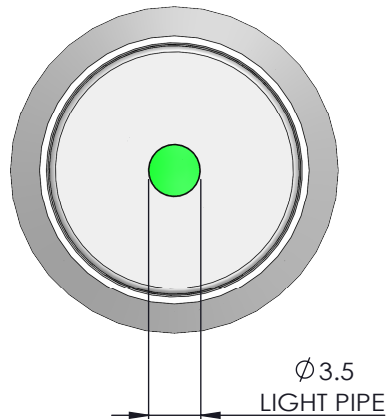
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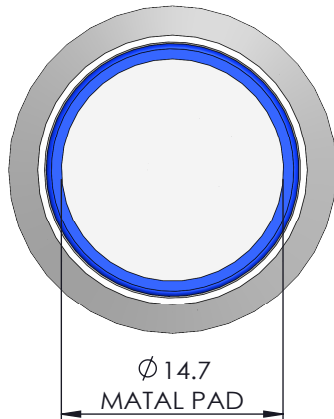
NON-ILLUMINATION



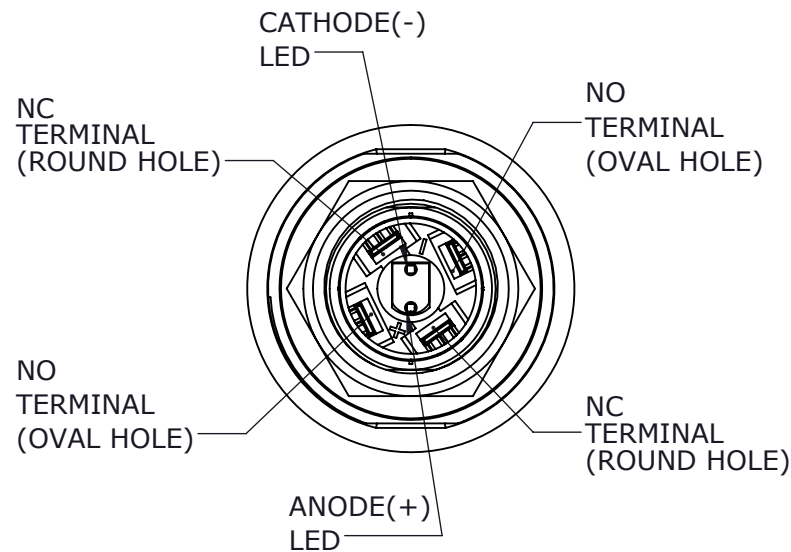
CENTER SPOT ILLUMINATION



RING ILLUMINATION

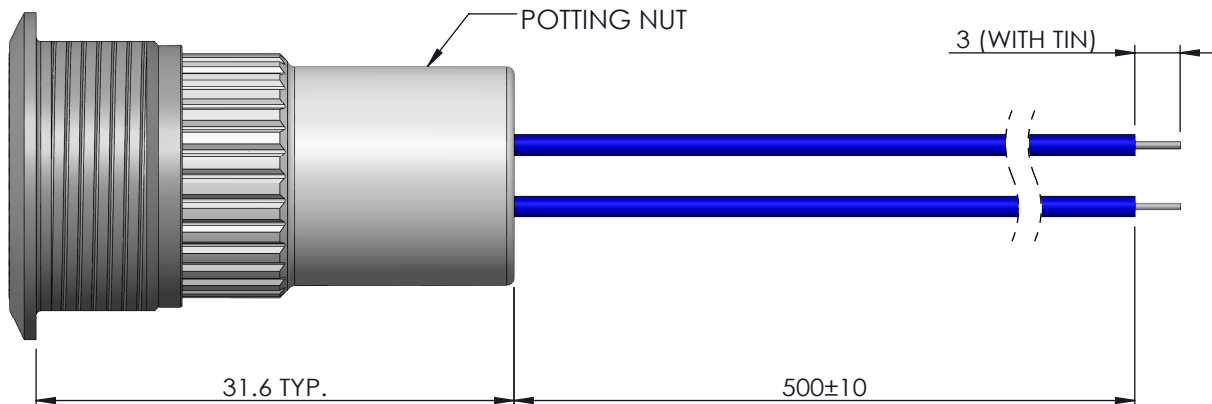
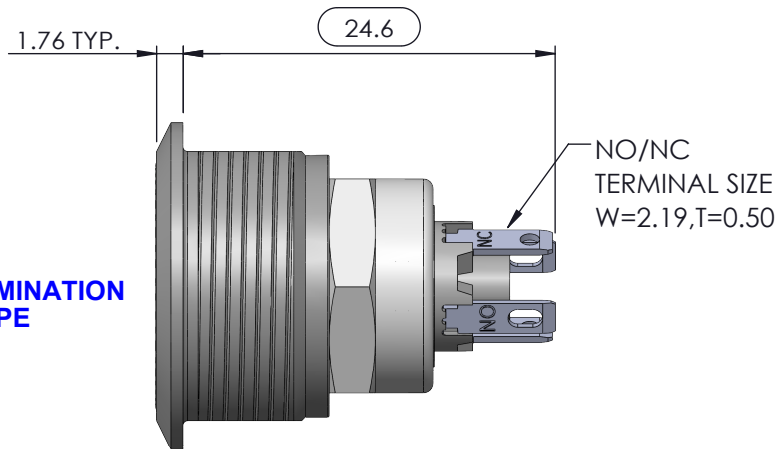


POWER/STANDBY ILLUMINATION

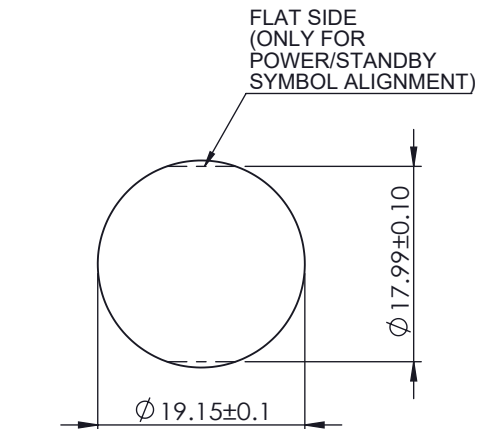
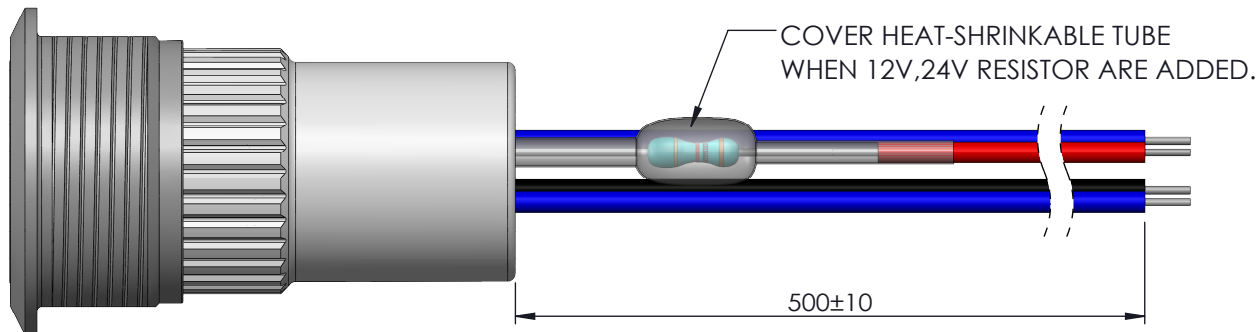
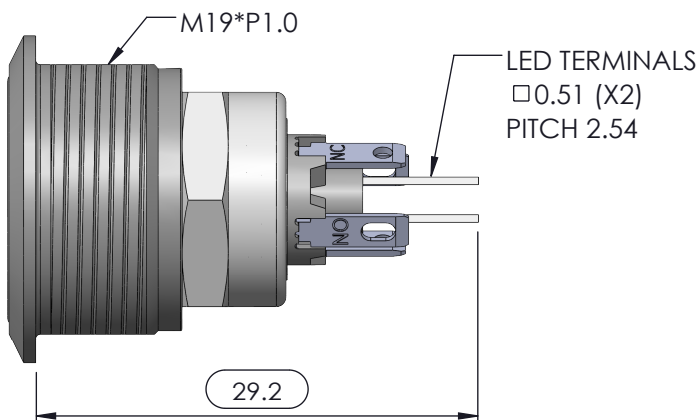


DETAIL FOR TERMINAL POSITION

NON-ILLUMINATION TYPE



ILLUMINATION TYPE

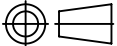


RECOMMENDED PANEL CUT-OUT

|                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                                                                                                 |                                                                                                   |            |                |          |                                                                                       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------|----------------|----------|---------------------------------------------------------------------------------------|--|
| DWG TYPE<br>SALES DRAWING                                                                                                                                                                                                                                                                                                                                                                                                      | DRAWN<br>e.e.     | TOLERANCES:<br>UNLESS OTHERWISE NOTED<br>X.X ± 0.5<br>X.XX ± 0.2<br>ANGULAR ±1°                                 | DWG TITLE<br>WSA48M-MECHANICAL MOMENTARY, NONE/<br>CENTER SPOT/RING/POWER-STANDBY<br>ILLUMINATION |            |                |          |  |  |
| STATUS<br>RELEASE                                                                                                                                                                                                                                                                                                                                                                                                              | REVIEW<br>--      |                                                                                                                 | DWG NO.<br>WSA48M-1,A,C,E                                                                         |            |                |          |                                                                                       |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                | DATE<br>2017/6/21 | REF:<br>WSA48-1,A,C,E                                                                                           | <input checked="" type="checkbox"/> 管制文件<br><input type="checkbox"/> 非管制文件                        | Unit<br>mm | SCALE<br>2 : 1 | REV<br>5 |                                                                                       |  |

REVISION RECORD

| REV | DESCRIPTION                                                            | DATE       | DRAWN | DOCUMENT NO.  |
|-----|------------------------------------------------------------------------|------------|-------|---------------|
| 1   | FOR SALES DRAWING                                                      | 2014.10.17 | A.H.  | --            |
| 2   | RE-ARRANGEMENT DRAWING<br>MODIFY SPECIFICATION                         | 2018.01.23 | C.C.  | --            |
| 3   | ADDING UL 61058 CERTIFICATION                                          | 2018.06.01 | K.Y.  | DCN-201800069 |
| 4   | 1. REDRAWN WITH NEW FRAME<br>2. ADDING AL ALLOY, ANODIZED BLACK OPTION | 2021.05.08 | C.C.  | DCN-202100075 |
| 5   | ADD ELECTRICAL LIFE 5A@125/250VAC                                      | 2022.08.09 | C.C.  | DCN-202200067 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |                                                                                                         |                                                                                                   |                                                                                       |              |                |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------|----------------|----------|
| DWG TYPE<br>SALES DRAWING                                                                                                                                                                                                                                                                                                                                                                                                       | DRAWN<br>c.c. | TOLERANCES:<br>UNLESS OTHERWISE NOTED<br>X.X ± 0.5<br>X.XX ± 0.2<br>ANGULAR ± 1°                        | DWG TITLE<br>WSA48M-MECHANICAL MOMENTARY, NONE/<br>CENTER SPOT/RING/POWER-STANDBY<br>ILLUMINATION |  |              |                |          |
| STATUS<br>RELEASE                                                                                                                                                                                                                                                                                                                                                                                                               | REVIEW<br>--  |                                                                                                         | DWG NO.<br>WSA48M-1,A,C,E                                                                         |                                                                                       |              |                |          |
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| DATE<br>2017/6/21                                                                                                                                                                                                                                                                                                                                                                                                               |               |                                                                                                         |                                                                                                   | RoHS Compliant                                                                        | SHEET 3 OF 3 |                |          |



| SWITCH<br>FUNCTION<br>CODE | SWITCH FUNCTION DESCRIPTION         |
|----------------------------|-------------------------------------|
| 2                          | MECHANICAL,MAINTAIN,SOLDER TERMINAL |
| B                          | MECHANICAL,MAINTAIN,NO/NO WIRELEADS |
| D                          | MECHANICAL,MAINTAIN,NC/NC WIRELEADS |
| F                          | MECHANICAL,MAINTAIN,NO/NC WIRELEADS |

| <b>HOUSING<br/>MATERIAL<br/>CODE</b> | <b>HOUSING<br/>DECSRIPTION</b>      |
|--------------------------------------|-------------------------------------|
| <b>1</b>                             | <b>STAINLESS<br/>STEEL</b>          |
| <b>2</b>                             | <b>ZINC ALLOY<br/>CHROME PLATED</b> |
| <b>3</b>                             | <b>AL ALLOY<br/>ANODIZED BLACK</b>  |

| BUTTON<br>TYPE CODE | BUTTON TYPE<br>DESCRIPTION    |
|---------------------|-------------------------------|
| 0                   | NON-<br>ILLUMINATION          |
| 1                   | CENTER SPOT<br>ILLUMINATION   |
| 2                   | RING<br>ILLUMINATION          |
| 3                   | POWER/STANDBY<br>ILLUMINATION |

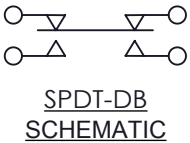
| LED COLOR CODE | LED COLOR |
|----------------|-----------|
| N              | NONE      |
| R              | RED       |
| B              | BLUE      |
| G              | GREEN     |
| Y              | YELLOW    |
| W              | WHITE     |

|                              |              |                             |
|------------------------------|--------------|-----------------------------|
| LED<br>INLET VOLTAGE<br>CODE |              | LED<br>INLET VOLTAGE        |
| NON-<br>WIRELEADS            | IF<br>BLANK* | FOLLOW LED<br>SPECIFICATION |
| WIRELEADS                    | IF<br>BLANK* | FOLLOW LED<br>SPECIFICATION |
|                              | 05           | 5V                          |
|                              | 12           | 12V                         |
|                              | 24           | 24V                         |

|                  |                              |
|------------------|------------------------------|
| <b>ANY CODE</b>  | DESCRIPTION                  |
| <b>IF BLANK*</b> | NA                           |
| <b>XXX</b>       | PER CUSTOMER SPECIAL REQUEST |

## MECHANICAL CHARACTERISTICS:

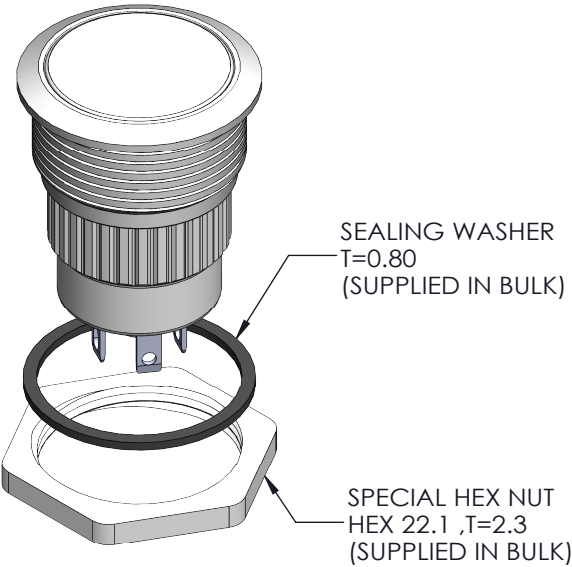
SWITCH CIRCUITRY: SPDT-DB  
SWITCH ACTION: MAINTAINED (PER CHART)  
PRE-TRAVEL: 1.27 mm NOMINAL  
OVER-TRAVEL: 0.254 mm NOMINAL  
TOTAL TRAVEL: 1.524 mm NOMINAL  
OPERATING FORCE: 525 g [5.15N] NOMINAL  
RELEASEING FORCE: 340 g [3.45N] NOMINAL  
PANEL THICKNESS:  
MOUNT: 0.5-4.5mm  
CONTACTS: SILVER  
NUT TORQUE FORCE: MAX 11.5 kgf\*cm [10 LB



| LED SPECIFICATION |           |                                                                                     |           |         |
|-------------------|-----------|-------------------------------------------------------------------------------------|-----------|---------|
| LED CODE          | LED Color | CIRCUITRY                                                                           | Vf(VDC)   | If (mA) |
|                   |           |                                                                                     | Color     |         |
| R                 | RED       |  | 1.8 ~ 2.5 | 20      |
| B                 | BLUE      |                                                                                     | 2.8 ~ 3.5 | 20      |
| G                 | GREEN     |                                                                                     | 2.8 ~ 3.5 | 20      |
| Y                 | YELLOW    |                                                                                     | 1.8 ~ 2.5 | 20      |
| W                 | WHITE     |                                                                                     | 2.8 ~ 3.5 | 20      |

Notes:  
Hand Soldering Temperature (4mm above from Body) : 320°C for 3 seconds

| WIRELEADS SPECIFICATION |                         |             |             |       |       |
|-------------------------|-------------------------|-------------|-------------|-------|-------|
| WIRELEADS TYPE          | WIRELEADS SPECIFICATION | SW TERMINAL | SW TERMINAL | LED   |       |
|                         |                         |             |             | COLOR |       |
|                         |                         | NO          | NC          | +     | -     |
| ILLUMINATION            | AWG24 / UL1007          | BLUE        | YELLOW      | RED   | BLACK |
| NON-ILLUMINATION        |                         | BLUE        | YELLOW      | -     | -     |



## ELECTRICAL LIFE:

MAINTAINED: 5A@28VDC, 5A@125/250VAC , 25K CYCLES NOMINAL

## ENVIROMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE: -40 °C to +85 °C[-40 °F to +185 °F]  
IP67 COMPLIANT

### ELECTRICAL SPECIFICATIONS:

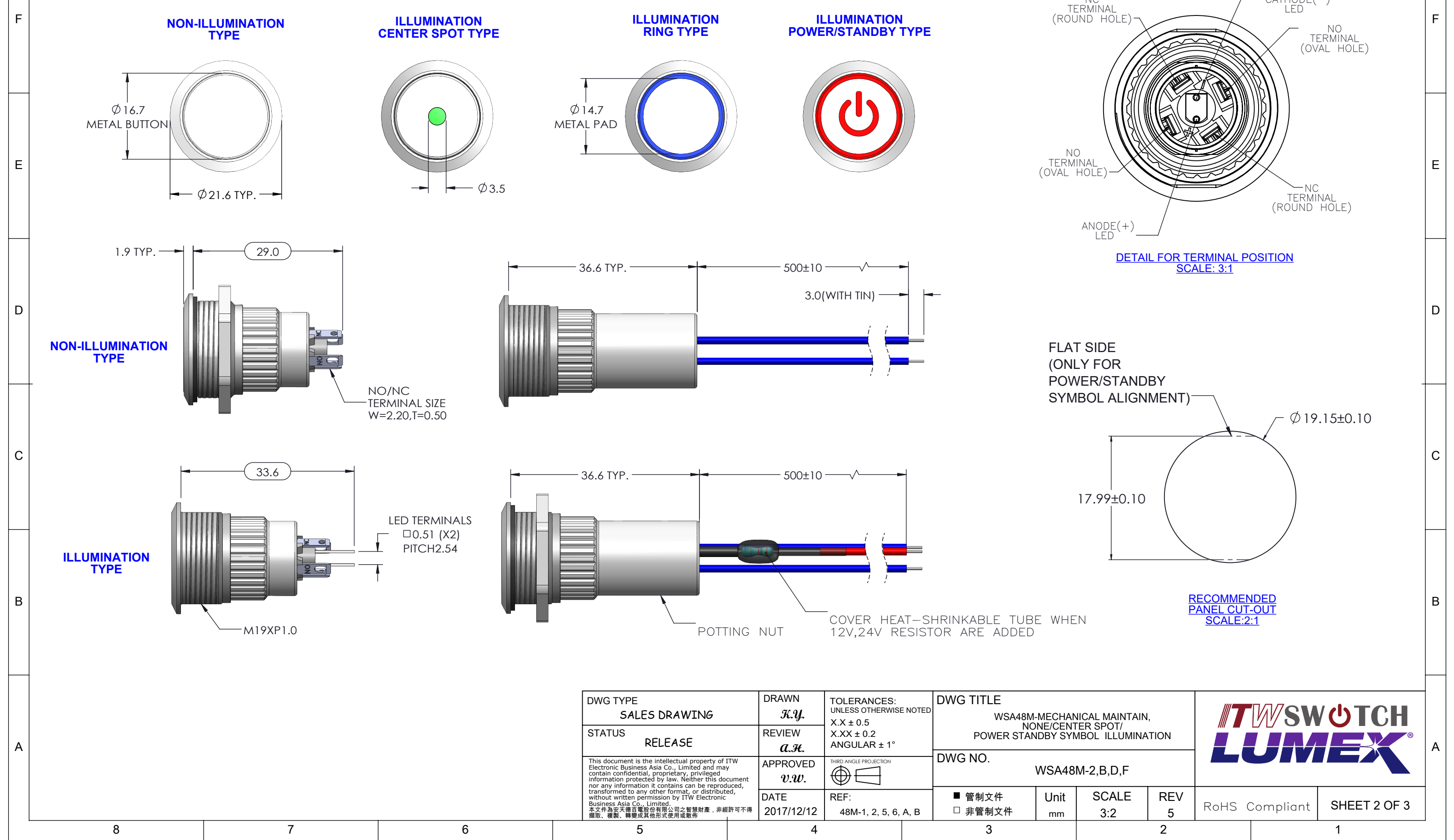
DIELECTRIC STRENGTH: 1,000VAC  
INSULATION RESISTANCE: 1G OHM  
CONTACT RESISTANCE:  
50m / 250m OHMS MAX INITIAL(NON-WIRELEAD / WIRELEADS)

**LED SPECIFICATIONS:**  
SEE LED SPECIFICATION

**CERTIFICATION: UL 61058**

\* NOTE:  
1.SUPPLY HEX NUT AND SEALING WASHER BULK IN PACKED

|                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                                                                                                                 |                                                                                                                                     |  |  |  |                                                                                       |              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------|--------------|
| DWG TYPE<br>SALES DRAWING                                                                                                                                                                                                                                                                                                                                                                                                       | DRAWN<br><i>K.Y.</i>    | TOLERANCES:<br>UNLESS OTHERWISE NOTED<br>X.X ± 0.5<br>X.XX ± 0.2<br>ANGULAR ± 1°                                | DWG TITLE<br>WSA48M-MECHANICAL MAINTAIN,<br>NONE/CENTER SPOT/<br>POWER STANDBY SYMBOL ILLUMINATION                                  |  |  |  |  |              |
| STATUS<br>RELEASE                                                                                                                                                                                                                                                                                                                                                                                                               | REVIEW<br><i>a.H.</i>   |                                                                                                                 | DWG NO.<br>WSA48M-2,B,D,F                                                                                                           |  |  |  |                                                                                       |              |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                 | DATE<br>2017/12/12      | REF:<br>48M-1, 2, 5, 6, A, B                                                                                    |                                                                                                                                     |  |  |  |                                                                                       |              |



|                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                                                                                                                 |                                                                                                    |  |  |  |                                                                                       |              |          |                |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------|--------------|----------|----------------|--------------|
| DWG TYPE<br>SALES DRAWING                                                                                                                                                                                                                                                                                                                                                                                                        | DRAWN<br>K.Y.      | TOLERANCES:<br>UNLESS OTHERWISE NOTED<br>X.X ± 0.5<br>X.XX ± 0.2<br>ANGULAR ± 1°                                | DWG TITLE<br>WSA48M-MECHANICAL MAINTAIN,<br>NONE/CENTER SPOT/<br>POWER STANDBY SYMBOL ILLUMINATION |  |  |  |  |              |          |                |              |
| STATUS<br>RELEASE                                                                                                                                                                                                                                                                                                                                                                                                                | REVIEW<br>a.H.     |                                                                                                                 | DWG NO.<br>WSA48M-2,B,D,F                                                                          |  |  |  |                                                                                       |              |          |                |              |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                  | DATE<br>2017/12/12 | REF:<br>48M-1, 2, 5, 6, A, B                                                                                    |                                                                                                    |  |  |  |                                                                                       |              |          |                |              |



|                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                                                     |                                                                                       |      |                                                                                       |     |                             |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-----|-----------------------------|--|
| DWG TYPE                                                                                                                                                                                                                                                                                                                                                                                                                       | DRAWN       | TOLERANCES:                                                                         | DWG TITLE                                                                             |      |  |     |                             |  |
| SALES DRAWING                                                                                                                                                                                                                                                                                                                                                                                                                  | <i>K.Y.</i> | UNLESS OTHERWISE NOTED                                                              | WSA48M-MECHANICAL MAINTAIN,<br>NONE/CENTER SPOT/<br>POWER STANDBY SYMBOL ILLUMINATION |      |                                                                                       |     |                             |  |
| STATUS                                                                                                                                                                                                                                                                                                                                                                                                                         | REVIEW      | X.X ± 0.5<br>X.XX ± 0.2<br>ANGULAR ± 1°                                             | DWG NO.                                                                               |      |                                                                                       |     |                             |  |
| RELEASE                                                                                                                                                                                                                                                                                                                                                                                                                        | <i>A.H.</i> |                                                                                     | WSA48M-2,B,D,F                                                                        |      |                                                                                       |     |                             |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                | <i>V.W.</i> |  |                                                                                       |      |                                                                                       |     |                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                | DATE        | REF:                                                                                | ■ 管制文件<br>□ 非管制文件                                                                     | Unit | SCALE                                                                                 | REV |                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                | 2017/12/12  | 48M-1, 2, 5, 6, A, B                                                                |                                                                                       | mm   | 3:2                                                                                   | 5   | RoHS Compliant SHEET 3 OF 3 |  |