



THE DATASHEET OF HA02-M

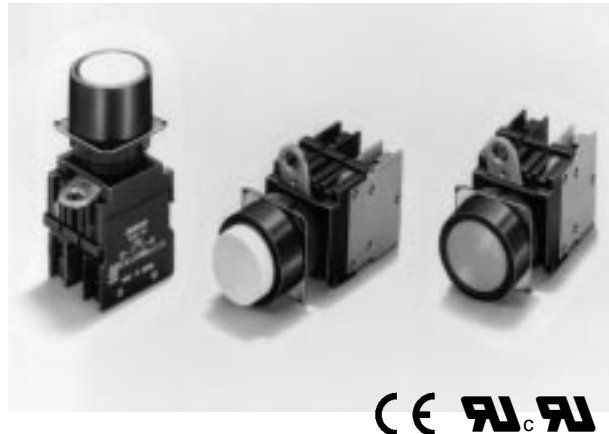


Pushbutton Switch

A22

Install in 22-dia. or 25-dia. Panel Cutout

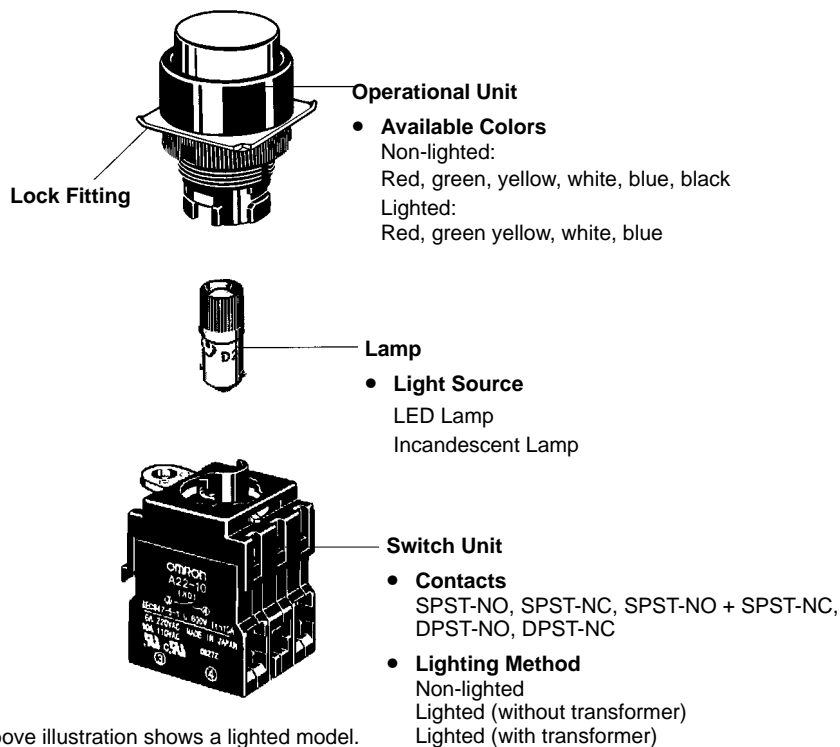
- Easy mounting and removal of Switch Unit.
- Increase wiring efficiency with three-row mounting of Switch Unit.
- Finger protection mechanism on Switch Unit provided as a standard feature.
- Use 25-dia. ring to install in 25-dia. panel cutouts.
- Install using either round, forked crimp terminals, or ferrules.
- Wide range of shapes and colors.
- IP65 oil resistance (Non-lighted models)
EN60947-5-1



This product was manufactured at OMRON Izumo. OMRON Izumo has obtained approvals from international certification bodies for its quality system and environmental control system.

Ordering Information

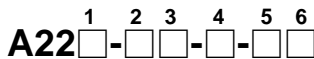
■ Construction



Refer to the pages 48 to 64 for specifications, accessories, installation, and precautions.

■ Model Number Legend (Completely Assembled)

Shipped as a set which includes the Operational Unit, LED (lighted type only), and Switch Unit.



1 Lighted/Non-lighted

| Code | Description |
|------|-------------|
| None | Non-lighted |
| L | Lighted |

2 Flange Shape

| Non-lighted | |
|-------------|-------------------------------|
| Code | Description |
| F | Round/Flat |
| T | Round/Projection |
| G | Round/Full-guard |
| H | Round/Half-guard |
| C | Square/Projection |
| D | Square/Full-guard |
| S | Round/Mushroom (30-dia. head) |
| M | Round/Mushroom (40-dia. head) |
| Lighted | |
| T | Round/Projection |
| G | Round/Full-guard |
| H | Round/Half-guard |
| C | Square/Projection |
| D | Square/Full-guard |

3 Illumination Color

| Code | Description |
|------|-----------------------------------|
| R | Red |
| G | Green |
| Y | Yellow |
| W | White |
| A | Blue |
| B | Black (for non-lighted type only) |

4 Light Source

| Without Transformer | | |
|---------------------|-----|---------------|
| Code | LED | Rated Voltage |
| 6D | LED | 6 VDC |
| 6A | | 6 VAC |
| 12A | | 12 VAC/DC |
| 24A | | 24 VAC/DC |
| With Transformer | | |
| T1 | LED | 110 VAC*1 |
| T2 | | 220 VAC*2 |

Note: The LED lamp (24 VAC/DC) can be lit by directly applying 110 VAC/DC (220 VAC/DC) to the lamp terminal. LED incorporates the 24-VAC/DC type.

5 Contacts

| Code | Description |
|------|-------------------|
| 10 | SPST-NO |
| 01 | SPST-NC |
| 11 | SPST-NO + SPST-NC |
| 20 | DPST-NO |
| 02 | DPST-NC |

Note: Refer to page 48 for contact ratings.

6 Switch Action

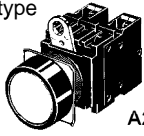

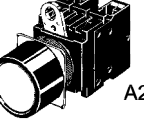
| Code | Description |
|------|-------------|
| M | Momentary |
| A | Latching |

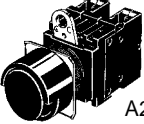

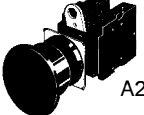
*1) Operational voltage: 95 to 115 VAC

*2) Operational voltage: 190 to 230 VAC


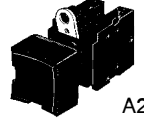
■ Pushbutton Switch (Completely Assembled)

Non-lighted (Round Type)

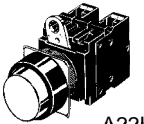
| Appearance | Output | Momentary operation (self-resetting) | Latching operation (self-holding) | Illumination color |
|--|-------------------|--------------------------------------|-----------------------------------|---|
|  A22-F | SPST-NO | A22-F□-10M | A22-F□-10A | Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) B (black) |
| | SPST-NC | A22-F□-01M | A22-F□-01A | |
| | SPST-NO + SPST-NC | A22-F□-11M | A22-F□-11A | |
| | DPST-NO | A22-F□-20M | A22-F□-20A | |
| | DPST-NC | A22-F□-02M | A22-F□-02A | |
|  A22-T | SPST-NO | A22-T□-10M | A22-T□-10A | |
| | SPST-NC | A22-T□-01M | A22-T□-01A | |
| | SPST-NO + SPST-NC | A22-T□-11M | A22-T□-11A | |
| | DPST-NO | A22-T□-20M | A22-T□-20A | |
| | DPST-NC | A22-T□-02M | A22-T□-02A | |
|  A22-G | SPST-NO | A22-G□-10M | A22-G□-10A | |
| | SPST-NC | A22-G□-01M | A22-G□-01A | |
| | SPST-NO + SPST-NC | A22-G□-11M | A22-G□-11A | |
| | DPST-NO | A22-G□-20M | A22-G□-20A | |
| | DPST-NC | A22-G□-02M | A22-G□-02A | |

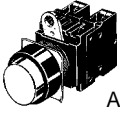
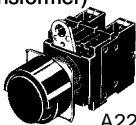
| Appearance | Output | Momentary operation (self-resetting) | Latching operation (self-holding) | Illumination color |
|---|-------------------|---|--------------------------------------|---|
| Round/Half-guard type  A22-H | SPST-NO | A22-H□-10M | A22-H□-10A | Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) B (black) |
| | SPST-NC | A22-H□-01M | A22-H□-01A | |
| | SPST-NO + SPST-NC | A22-H□-11M | A22-H□-11A | |
| | DPST-NO | A22-H□-20M | A22-H□-20A | |
| | DPST-NC | A22-H□-02M | A22-H□-02A | |
| Small-size Mushroom type (30-dia. head)  A22-S | SPST-NO | A22-S□-10M | A22-S□-10A | |
| | SPST-NC | A22-S□-01M | A22-S□-01A | |
| | SPST-NO + SPST-NC | A22-S□-11M | A22-S□-11A | |
| | DPST-NO | A22-S□-20M | A22-S□-20A | |
| | DPST-NC | A22-S□-02M | A22-S□-02A | |
| Medium-size Mushroom type (40-dia head)  A22-M | SPST-NO | A22-M□-10M | A22-M□-10A | |
| | SPST-NC | A22-M□-01M | A22-M□-01A | |
| | SPST-NO + SPST-NC | A22-M□-11M | A22-M□-11A | |
| | DPST-NO | A22-M□-20M | A22-M□-20A | |
| | DPST-NC | A22-M□-02M | A22-M□-02A | |


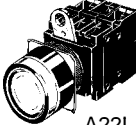
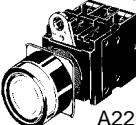
Non-lighted (Square Type)

| Appearance | Output | Momentary operation (self-reset) | Latching operation (self-holding) | Illumination color |
|--|-------------------|-------------------------------------|--------------------------------------|---|
| Square/Projection type  A22-C | SPST-NO | A22-C□-10M | A22-C□-10A | Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) B (black) |
| | SPST-NC | A22-C□-01M | A22-C□-01A | |
| | SPST-NO + SPST-NC | A22-C□-11M | A22-C□-11A | |
| | DPST-NO | A22-C□-20M | A22-C□-20A | |
| | DPST-NC | A22-C□-02M | A22-C□-02A | |
| Square/Guard type  A22-D | SPST-NO | A22-D□-10M | A22-D□-10A | |
| | SPST-NC | A22-D□-01M | A22-D□-01A | |
| | SPST-NO + SPST-NC | A22-D□-11M | A22-D□-11A | |
| | DPST-NO | A22-D□-20M | A22-D□-20A | |
| | DPST-NC | A22-D□-02M | A22-D□-02A | |



Lighted (Round Type)

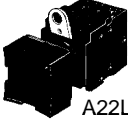

| Appearance | Output | Lighting | Rated voltage | Momentary operation (self-resetting) | Latching operation (self-holding) | Illumination color |
|---|-------------------|----------|---------------|---|--------------------------------------|--|
| Round/Projection type LED lighting (Without transformer)  A22L-T | SPST-NO | LED | 6 VDC | A22L-T□-6D-10M | A22L-T□-6D-10A | Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) |
| | | | 6 VAC | A22L-T□-6A-10M | A22L-T□-6A-10A | |
| | | | 12 VAC/DC | A22L-T□-12A-10M | A22L-T□-12A-10A | |
| | | | 24 VAC/DC | A22L-T□-24A-10M | A22L-T□-24A-10A | |
| | SPST-NC | | 6 VDC | A22L-T□-6D-01M | A22L-T□-6D-01A | |
| | | | 6 VAC | A22L-T□-6A-01M | A22L-T□-6A-01A | |
| | | | 12 VAC/DC | A22L-T□-12A-01M | A22L-T□-12A-01A | |
| | | | 24 VAC/DC | A22L-T□-24A-01M | A22L-T□-24A-01A | |
| | SPST-NO + SPST-NC | | 6 VDC | A22L-T□-6D-11M | A22L-T□-6D-11A | |
| | | | 6 VAC | A22L-T□-6A-11M | A22L-T□-6A-11A | |
| | | | 12 VAC/DC | A22L-T□-12A-11M | A22L-T□-12A-11A | |
| | | | 24 VAC/DC | A22L-T□-24A-11M | A22L-T□-24A-11A | |
| | DPST-NO | | 6 VDC | A22L-T□-6D-20M | A22L-T□-6D-20A | |
| | | | 6 VAC | A22L-T□-6A-20M | A22L-T□-6A-20A | |
| | | | 12 VAC/DC | A22L-T□-12A-20M | A22L-T□-12A-20A | |
| | | | 24 VAC/DC | A22L-T□-24A-20M | A22L-T□-24A-20A | |
| | DPST-NC | | 6 VDC | A22L-T□-6D-02M | A22L-T□-6D-02A | |
| | | | 6 VAC | A22L-T□-6A-02M | A22L-T□-6A-02A | |
| | | | 12 VAC/DC | A22L-T□-12A-02M | A22L-T□-12A-02A | |
| | | | 24 VAC/DC | A22L-T□-24A-02M | A22L-T□-24A-02A | |

| Appearance | Output | Lighting | Rated voltage | Momentary operation (self-resetting) | Latching operation (self-holding) | Illumination color | |
|--|---|-----------------|-----------------|--------------------------------------|-----------------------------------|--|----------------|
| Round/Projection type LED transformer lighting (With transformer)  A22L-T | SPST-NO | LED | 110 VAC | A22L-T□-T1-10M | A22L-T□-T1-10A | Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) | |
| | | | 220 VAC | A22L-T□-T2-10M | A22L-T□-T2-10A | | |
| | SPST-NC | | 110 VAC | A22L-T□-T1-01M | A22L-T□-T1-01A | | |
| | | | 220 VAC | A22L-T□-T2-01M | A22L-T□-T2-01A | | |
| | SPST-NO + SPST-NC | | 110 VAC | A22L-T□-T1-11M | A22L-T□-T1-11A | | |
| | | | 220 VAC | A22L-T□-T2-11M | A22L-T□-T2-11A | | |
| | DPST-NO | | 110 VAC | A22L-T□-T1-20M | A22L-T□-T1-20A | | |
| | | | 220 VAC | A22L-T□-T2-20M | A22L-T□-T2-20A | | |
| | DPST-NC | | 110 VAC | A22L-T□-T1-02M | A22L-T□-T1-02A | | |
| | | | 220 VAC | A22L-T□-T2-02M | A22L-T□-T2-02A | | |
| | | | | 220 VAC | A22L-T□-T2-02M | | A22L-T□-T2-02A |
| | Round/Half-guard type LED lighting (Without transformer)  A22L-H | | SPST-NO | 6 VDC | A22L-H□-6D-10M | | A22L-H□-6D-10A |
| 6 VAC | | A22L-H□-6A-10M | | A22L-H□-6A-10A | | | |
| 12 VAC/DC | | A22L-H□-12A-10M | | A22L-H□-12A-10A | | | |
| 24 VAC/DC | | A22L-H□-24A-10M | | A22L-H□-24A-10A | | | |
| SPST-NC | | 6 VDC | A22L-H□-6D-01M | A22L-H□-6D-01A | | | |
| | | 6 VAC | A22L-H□-6A-01M | A22L-H□-6A-01A | | | |
| | | 12 VAC/DC | A22L-H□-12A-01M | A22L-H□-12A-01A | | | |
| | | 24 VAC/DC | A22L-H□-24A-01M | A22L-H□-24A-01A | | | |
| SPST-NO + SPST-NC | | 6 VDC | A22L-H□-6D-11M | A22L-H□-6D-11A | | | |
| | | 6 VAC | A22L-H□-6A-11M | A22L-H□-6A-11A | | | |
| | | 12 VAC/DC | A22L-H□-12A-11M | A22L-H□-12A-11A | | | |
| | | 24 VAC/DC | A22L-H□-24A-11M | A22L-H□-24A-11A | | | |
| DPST-NO | | 6 VDC | A22L-H□-6D-20M | A22L-H□-6D-20A | | | |
| | | 6 VAC | A22L-H□-6A-20M | A22L-H□-6A-20A | | | |
| | | 12 VAC/DC | A22L-H□-12A-20M | A22L-H□-12A-20A | | | |
| | | 24 VAC/DC | A22L-H□-24A-20M | A22L-H□-24A-20A | | | |
| DPST-NC | | 6 VDC | A22L-H□-6D-02M | A22L-H□-6D-02A | | | |
| | | 6 VAC | A22L-H□-6A-02M | A22L-H□-6A-02A | | | |
| | | 12 VAC/DC | A22L-H□-12A-02M | A22L-H□-12A-02A | | | |
| | | 24 VAC/DC | A22L-H□-24A-02M | A22L-H□-24A-02A | | | |

| Appearance | Output | Lighting | Rated voltage | Momentary operation (self-resetting) | Latching operation (self-holding) | Illumination color |
|--|-------------------|-----------|-----------------|--------------------------------------|-----------------------------------|--|
| Round/Half-guard type LED transformer lighting (With transformer)  A22L-H | SPST-NO | LED | 110 VAC | A22L-H□-T1-10M | A22L-H□-T1-10A | Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) |
| | | | 220 VAC | A22L-H□-T2-10M | A22L-H□-T2-10A | |
| | SPST-NC | | 110 VAC | A22L-H□-T1-01M | A22L-H□-T1-01A | |
| | | | 220 VAC | A22L-H□-T2-01M | A22L-H□-T2-01A | |
| | SPST-NO + SPST-NC | | 110 VAC | A22L-H□-T1-11M | A22L-H□-T1-11A | |
| | | | 220 VAC | A22L-H□-T2-11M | A22L-H□-T2-11A | |
| | DPST-NO | | 110 VAC | A22L-H□-T1-20M | A22L-H□-T1-20A | |
| | | | 220 VAC | A22L-H□-T2-20M | A22L-H□-T2-20A | |
| | DPST-NC | | 110 VAC | A22L-H□-T1-02M | A22L-H□-T1-02A | |
| | | | 220 VAC | A22L-H□-T2-02M | A22L-H□-T2-02A | |
| Round/Full-guard type LED lighting (Without transformer)  A22L-G | SPST-NO | | 6 VDC | A22L-G□-6D-10M | A22L-G□-6D-10A | |
| | | | 6 VAC | A22L-G□-6A-10M | A22L-G□-6A-10A | |
| | | | 12 VAC/DC | A22L-G□-12A-10M | A22L-G□-12A-10A | |
| | | | 24 VAC/DC | A22L-G□-24A-10M | A22L-G□-24A-10A | |
| | SPST-NC | | 6 VDC | A22L-G□-6D-01M | A22L-G□-6D-01A | |
| | | | 6 VAC | A22L-G□-6A-01M | A22L-G□-6A-01A | |
| | | | 12 VAC/DC | A22L-G□-12A-01M | A22L-G□-12A-01A | |
| | | | 24 VAC/DC | A22L-G□-24A-01M | A22L-G□-24A-01A | |
| | SPST-NO + SPST-NC | | 6 VDC | A22L-G□-6D-11M | A22L-G□-6D-11A | |
| | | | 6 VAC | A22L-G□-6A-11M | A22L-G□-6A-11A | |
| | | 12 VAC/DC | A22L-G□-12A-11M | A22L-G□-12A-11A | | |
| | | 24 VAC/DC | A22L-G□-24A-11M | A22L-G□-24A-11A | | |
| | DPST-NO | 6 VDC | A22L-G□-6D-20M | A22L-G□-6D-20A | | |
| | | 6 VAC | A22L-G□-6A-20M | A22L-G□-6A-20A | | |
| | | 12 VAC/DC | A22L-G□-12A-20M | A22L-G□-12A-20A | | |
| | | 24 VAC/DC | A22L-G□-24A-20M | A22L-G□-24A-20A | | |
| | DPST-NC | 6 VDC | A22L-G□-6D-02M | A22L-G□-6D-02A | | |
| | | 6 VAC | A22L-G□-6A-02M | A22L-G□-6A-02A | | |
| | | 12 VAC/DC | A22L-G□-12A-02M | A22L-G□-12A-02A | | |
| | | 24 VAC/DC | A22L-G□-24A-02M | A22L-G□-24A-02A | | |
| Round/Full-guard type LED transformer lighting (With transformer)  A22L-G | SPST-NO | 110 VAC | A22L-G□-T1-10M | A22L-G□-T1-10A | | |
| | | 220 VAC | A22L-G□-T2-10M | A22L-G□-T2-10A | | |
| | SPST-NC | 110 VAC | A22L-G□-T1-01M | A22L-G□-T1-01A | | |
| | | 220 VAC | A22L-G□-T2-01M | A22L-G□-T2-01A | | |
| | SPST-NO + SPST-NC | 110 VAC | A22L-G□-T1-11M | A22L-G□-T1-11A | | |
| | | 220 VAC | A22L-G□-T2-11M | A22L-G□-T2-11A | | |
| | DPST-NO | 110 VAC | A22L-G□-T1-20M | A22L-G□-T1-20A | | |
| | | 220 VAC | A22L-G□-T2-20M | A22L-G□-T2-20A | | |
| | DPST-NC | 110 VAC | A22L-G□-T1-02M | A22L-G□-T1-02A | | |
| | | 220 VAC | A22L-G□-T2-02M | A22L-G□-T2-02A | | |

Lighted (Square Type)

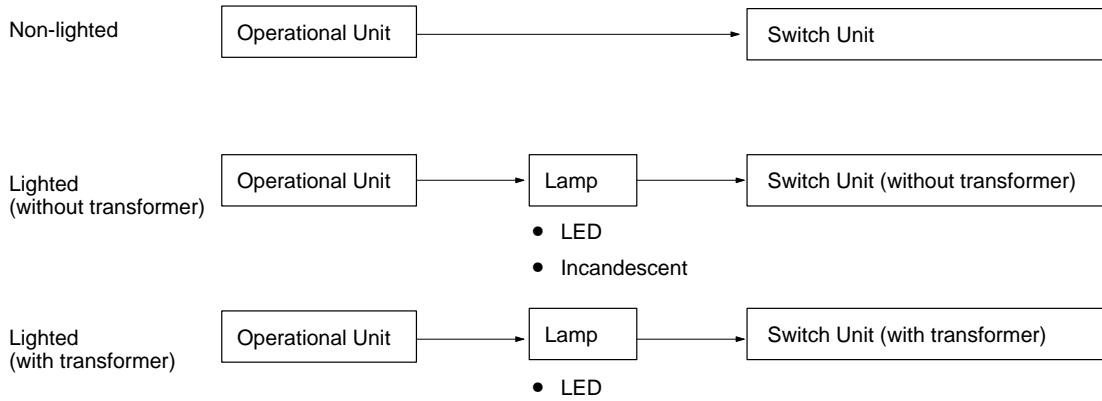
| Appearance | Output | Lighting | Rated voltage | Momentary operation (self-resetting) | Latching operation (self-holding) | Illumination color |
|--|-------------------|----------|----------------|--------------------------------------|-----------------------------------|--|
| Square/Projection type LED lighting (Without transformer)  A22L-C | SPST-NO | LED | 6 VDC | A22L-C□-6D-10M | A22L-C□-6D-10A | Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) |
| | | | 6 VAC | A22L-C□-6A-10M | A22L-C□-6A-10A | |
| | | | 12 VAC/DC | A22L-C□-12A-10M | A22L-C□-12A-10A | |
| | | | 24 VAC/DC | A22L-C□-24A-10M | A22L-C□-24A-10A | |
| | SPST-NC | | 6 VDC | A22L-C□-6D-01M | A22L-C□-6D-01A | |
| | | | 6 VAC | A22L-C□-6A-01M | A22L-C□-6A-01A | |
| | | | 12 VAC/DC | A22L-C□-12A-01M | A22L-C□-12A-01A | |
| | | | 24 VAC/DC | A22L-C□-24A-01M | A22L-C□-24A-01A | |
| | SPST-NO + SPST-NC | | 6 VDC | A22L-C□-6D-11M | A22L-C□-6D-11A | |
| | | | 6 VAC | A22L-C□-6A-11M | A22L-C□-6A-11A | |
| | | | 12 VAC/DC | A22L-C□-12A-11M | A22L-C□-12A-11A | |
| | | | 24 VAC/DC | A22L-C□-24A-11M | A22L-C□-24A-11A | |
| | DPST-NO | | 6 VDC | A22L-C□-6D-20M | A22L-C□-6D-20A | |
| | | | 6 VAC | A22L-C□-6A-20M | A22L-C□-6A-20A | |
| | | | 12 VAC/DC | A22L-C□-12A-20M | A22L-C□-12A-20A | |
| | | | 24 VAC/DC | A22L-C□-24A-20M | A22L-C□-24A-20A | |
| | DPST-NC | | 6 VDC | A22L-C□-6D-02M | A22L-C□-6D-02A | |
| | | | 6 VAC | A22L-C□-6A-02M | A22L-C□-6A-02A | |
| | | | 12 VAC/DC | A22L-C□-12A-02M | A22L-C□-12A-02A | |
| | | | 24 VAC/DC | A22L-C□-24A-02M | A22L-C□-24A-02A | |
| Square/Projection type LED transformer lighting (With transformer)  A22L-C | SPST-NO | 110 VAC | A22L-C□-T1-10M | A22L-C□-T1-10A | | |
| | | 220 VAC | A22L-C□-T2-10M | A22L-C□-T2-10A | | |
| | SPST-NC | 110 VAC | A22L-C□-T1-01M | A22L-C□-T1-01A | | |
| | | 220 VAC | A22L-C□-T2-01M | A22L-C□-T2-01A | | |
| | SPST-NO + SPST-NC | 110 VAC | A22L-C□-T1-11M | A22L-C□-T1-11A | | |
| | | 220 VAC | A22L-C□-T2-11M | A22L-C□-T2-11A | | |
| | DPST-NO | 110 VAC | A22L-C□-T1-20M | A22L-C□-T1-20A | | |
| | | 220 VAC | A22L-C□-T2-20M | A22L-C□-T2-20A | | |
| | DPST-NC | 110 VAC | A22L-C□-T1-02M | A22L-C□-T1-02A | | |
| | | 220 VAC | A22L-C□-T2-02M | A22L-C□-T2-02A | | |

| Appearance | Output | Lighting | Rated voltage | Momentary operation (self-resetting) | Latching operation (self-holding) | Illumination color |
|---|-------------------|-----------------|-----------------|--------------------------------------|-----------------------------------|--|
| Square/Full-guard type LED lighting (Without transformer)  A22L-D | SPST-NO | LED | 6 VDC | A22L-D□-6D-10M | A22L-D□-6D-10A | Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) |
| | | | 6 VAC | A22L-D□-6A-10M | A22L-D□-6A-10A | |
| | | | 12 VAC/DC | A22L-D□-12A-10M | A22L-D□-12A-10A | |
| | | | 24 VAC/DC | A22L-D□-24A-10M | A22L-D□-24A-10A | |
| | SPST-NC | | 6 VDC | A22L-D□-6D-01M | A22L-D□-6D-01A | |
| | | | 6 VAC | A22L-D□-6A-01M | A22L-D□-6A-01A | |
| | | | 12 VAC/DC | A22L-D□-12A-01M | A22L-D□-12A-01A | |
| | | | 24 VAC/DC | A22L-D□-24A-01M | A22L-D□-24A-01A | |
| | SPST-NO + SPST-NC | | 6 VDC | A22L-D□-6D-11M | A22L-D□-6D-11A | |
| | | | 6 VAC | A22L-D□-6A-11M | A22L-D□-6A-11A | |
| | | | 12 VAC/DC | A22L-D□-12A-11M | A22L-D□-12A-11A | |
| | | | 24 VAC/DC | A22L-D□-24A-11M | A22L-D□-24A-11A | |
| | DPST-NO | | 6 VDC | A22L-D□-6D-20M | A22L-D□-6D-20A | |
| | | | 6 VAC | A22L-D□-6A-20M | A22L-D□-6A-20A | |
| | | | 12 VAC/DC | A22L-D□-12A-20M | A22L-D□-12A-20A | |
| | | | 24 VAC/DC | A22L-D□-24A-20M | A22L-D□-24A-20A | |
| DPST-NC | 6 VDC | A22L-D□-6D-02M | A22L-D□-6D-02A | | | |
| | 6 VAC | A22L-D□-6A-02M | A22L-D□-6A-02A | | | |
| | 12 VAC/DC | A22L-D□-12A-02M | A22L-D□-12A-02A | | | |
| | 24 VAC/DC | A22L-D□-24A-02M | A22L-D□-24A-02A | | | |
| Square/Full-guard type LED transformer lighting (With transformer)  A22L-D | SPST-NO | 110 VAC | A22L-D□-T1-10M | A22L-D□-T1-10A | | |
| | | 220 VAC | A22L-D□-T2-10M | A22L-D□-T2-10A | | |
| | SPST-NC | 110 VAC | A22L-D□-T1-01M | A22L-D□-T1-01A | | |
| | | 220 VAC | A22L-D□-T2-01M | A22L-D□-T2-01A | | |
| | SPST-NO + SPST-NC | 110 VAC | A22L-D□-T1-11M | A22L-D□-T1-11A | | |
| | | 220 VAC | A22L-D□-T2-11M | A22L-D□-T2-11A | | |
| | DPST-NO | 110 VAC | A22L-D□-T1-20M | A22L-D□-T1-20A | | |
| | | 220 VAC | A22L-D□-T2-20M | A22L-D□-T2-20A | | |
| | DPST-NC | 110 VAC | A22L-D□-T1-02M | A22L-D□-T1-02A | | |
| | | 220 VAC | A22L-D□-T2-02M | A22L-D□-T2-02A | | |

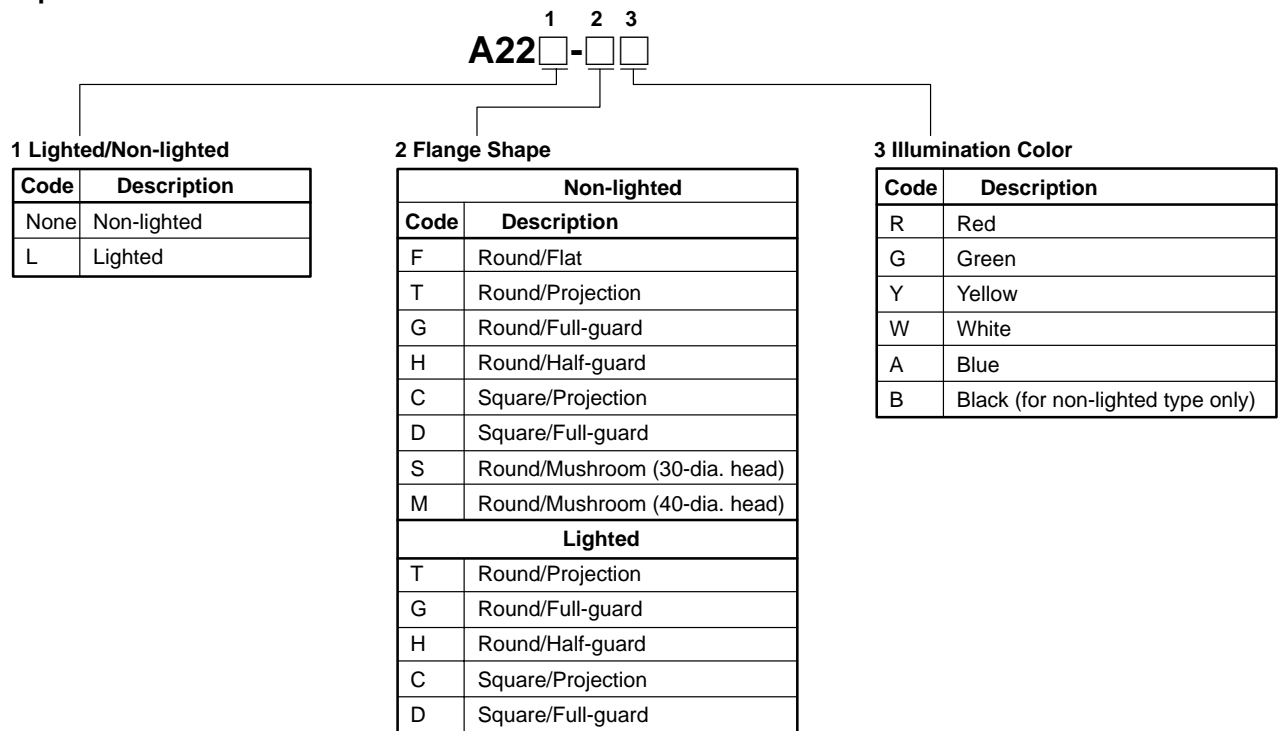
■ Model Number Legend (Subassembly)

The Operational Unit, Lamp, or Switch Unit can be ordered separately. Use them in combination for models that are not available as assembled units. These can also be used as inventory for maintenance parts.

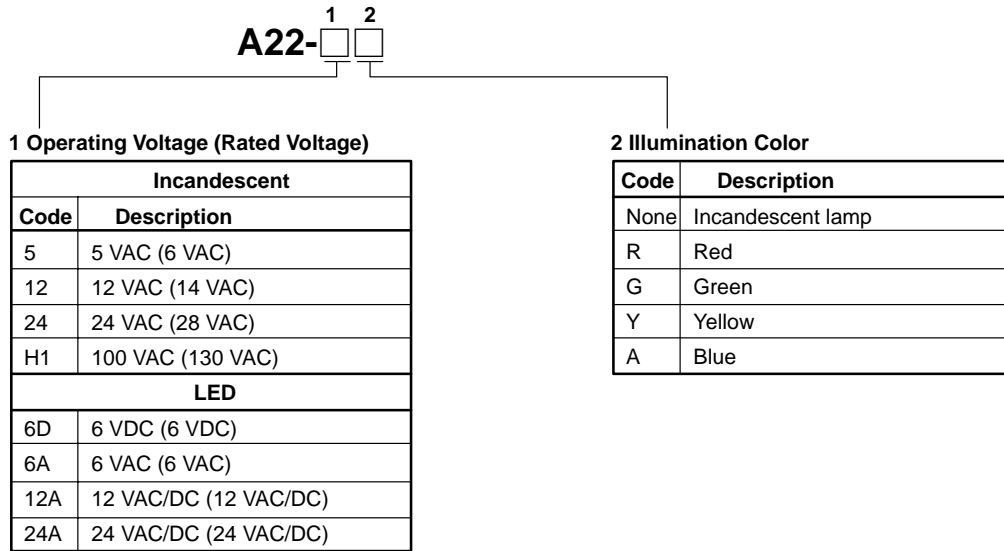
Unit Combinations



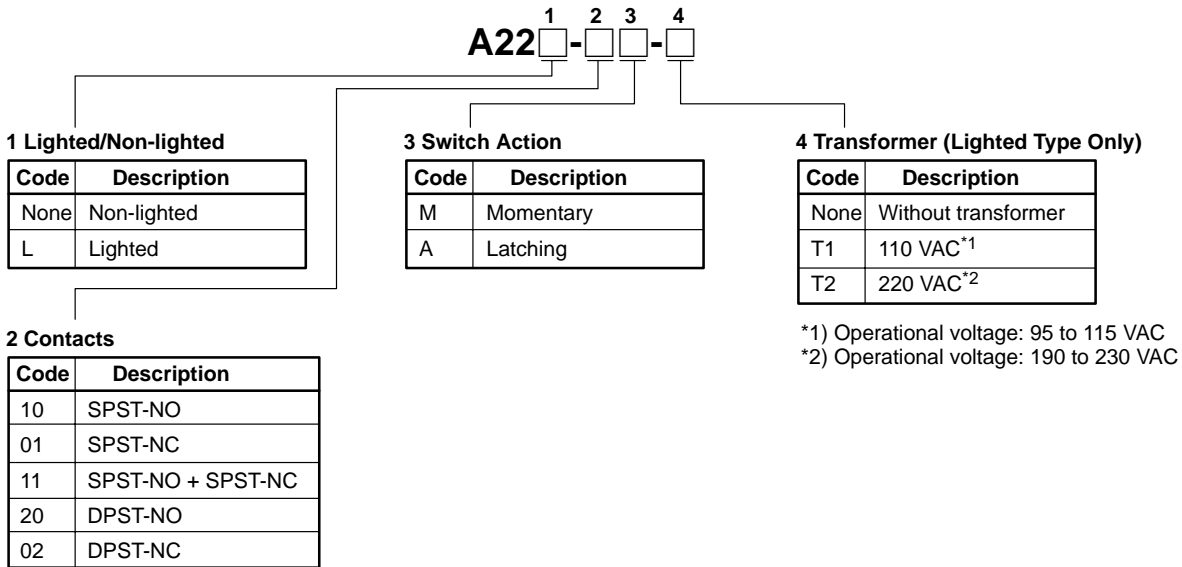
1. Operational Unit



2. Lamp (Common Use)






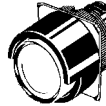
3. Switch Unit (General-purpose Load)







■ Pushbutton Switches (Subassembly)




Operational Unit

Non-lighted



| Color of Operational Unit | IP65 oil-resistant models | | | |
|---------------------------|--|--|--|--|
| | Flat type  | Projection type  | Full-guard type  | Half-guard type  |
| Red | A22-FR | A22-TR | A22-GR | A22-HR |
| Green | A22-FG | A22-TG | A22-GG | A22-HG |
| Yellow | A22-FY | A22-TY | A22-GY | A22-HY |
| White | A22-FW | A22-TW | A22-GW | A22-HW |
| Blue | A22-FA | A22-TA | A22-GA | A22-HA |
| Black | A22-FB | A22-TB | A22-GB | A22-HB |

| Color of Operational Unit | IP65 oil-resistant models | | | |
|---------------------------|---|---|--|---|
| | Square/Projection type  | Square/Full-guard type  | Round/Mushroom type (30-dia. head)  | Round/Mushroom type (40-dia. head)  |
| Red | A22-CR | A22-DR | A22-SR | A22-MR |
| Green | A22-CG | A22-DG | A22-SG | A22-MG |
| Yellow | A22-CY | A22-DY | A22-SY | A22-MY |
| White | A22-CW | A22-DW | A22-SW | A22-MW |
| Blue | A22-CA | A22-DA | A22-SA | A22-MA |
| Black | A22-CB | A22-DB | A22-SB | A22-MB |

Lighted


| Color of Operational Unit | IP65 | | |
|---------------------------|--|---|--|
| | Projection type  | Full-guard type  | Half-guard type  |
| Red | A22L-TR | A22L-GR | A22L-HR |
| Green | A22L-TG | A22L-GG | A22L-HG |
| Yellow | A22L-TY | A22L-GY | A22L-HY |
| White | A22L-TW | A22L-GW | A22L-HW |
| Blue | A22L-TA | A22L-GA | A22L-HA |

Note: Common to incandescent lamps and LEDs.

| Color of Operational Unit | IP65 | |
|---------------------------|--|--|
| | Square/Projection  | Square/Full-guard type  |
| Red | A22L-CR | A22L-DR |
| Green | A22L-CG | A22L-DG |
| Yellow | A22L-CY | A22L-DY |
| White | A22L-CW | A22L-DW |
| Blue | A22L-CA | A22L-DA |


Lamps

LED

| Rated voltage  | 6 VDC | 6 VAC | 12 VAC/DC | 24 VAC/DC |
|--|---------|---------|-----------|-----------|
| LED light | | | | |
| Red | A22-6DR | A22-6AR | A22-12AR | A22-24AR |
| Green | A22-6DG | A22-6AG | A22-12AG | A22-24AG |
| Yellow (see note 2) | A22-6DY | A22-6AY | A22-12AY | A22-24AY |
| Blue | A22-6DA | A22-6AA | A22-12AA | A22-24AA |

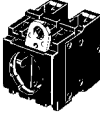
- Note:** 1. For transformer lighting, use the A22-24A□.
2. Used when the Operational Unit color is yellow or white.

Incandescent



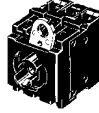
| Rated voltage  | 6 VAC | 14 VAC | 28 VAC | 130 VAC |
|--|-------|--------|--------|---------|
| | A22-5 | A22-12 | A22-24 | A22-H1 |

Switch Unit (General-purpose Load)

Non-lighted

| Switch action  | Contacts | Model |
|--|-------------------|---------|
| Momentary | SPST-NO | A22-10M |
| | SPST-NC | A22-01M |
| | SPST-NO + SPST-NC | A22-11M |
| | DPST-NO | A22-20M |
| | DPST-NC | A22-02M |
| Latching | SPST-NO | A22-10A |
| | SPST-NC | A22-01A |
| | SPST-NO + SPST-NC | A22-11A |
| | DPST-NO | A22-20A |
| | DPST-NC | A22-02A |

Lighted

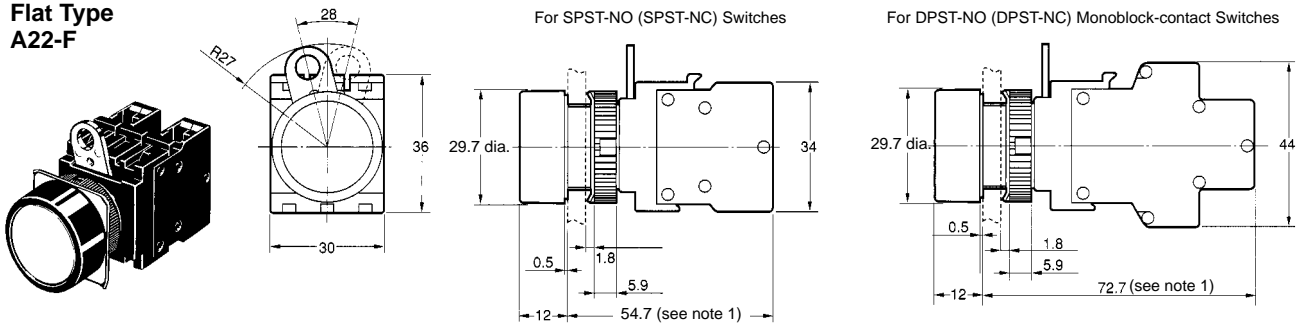
| Switch Action | Contacts | Transformer circuits | | |
|---------------|-------------------|--|---|--|
| | | Without transformer  | With transformer | |
| | | | 110 VAC  | 220 VAC  |
| Momentary | SPST-NO | A22L-10M | A22L-10M-T1 | A22L-10M-T2 |
| | SPST-NC | A22L-01M | A22L-01M-T1 | A22L-01M-T2 |
| | SPST-NO + SPST-NC | A22L-11M | A22L-11M-T1 | A22L-11M-T2 |
| | DPST-NO | A22L-20M | A22L-20M-T1 | A22L-20M-T2 |
| | DPST-NC | A22L-02M | A22L-02M-T1 | A22L-02M-T2 |
| Latching | SPST-NO | A22L-10A | A22L-10A-T1 | A22L-10A-T2 |
| | SPST-NC | A22L-01A | A22L-01A-T1 | A22L-01A-T2 |
| | SPST-NO + SPST-NC | A22L-11A | A22L-11A-T1 | A22L-11A-T2 |
| | DPST-NO | A22L-20A | A22L-20A-T1 | A22L-20A-T2 |
| | DPST-NC | A22L-02A | A22L-02A-T1 | A22L-02A-T2 |

Dimensions

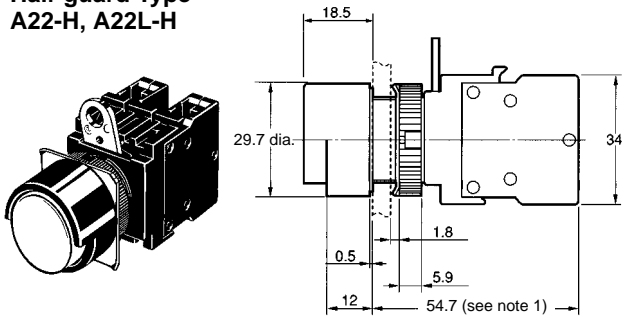
Note: 1. All units are in millimeters unless otherwise indicated.
 2. The following illustrations are for momentary operation.

■ Lighted/Non-lighted Pushbutton Switches

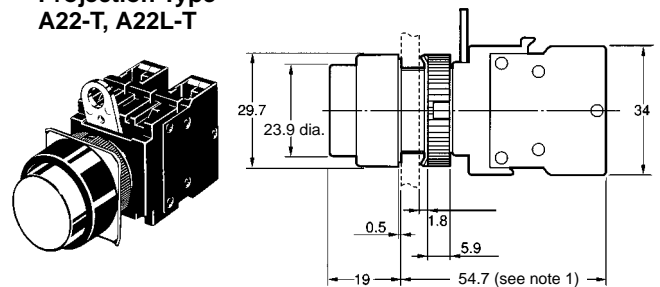
**Flat Type
A22-F**



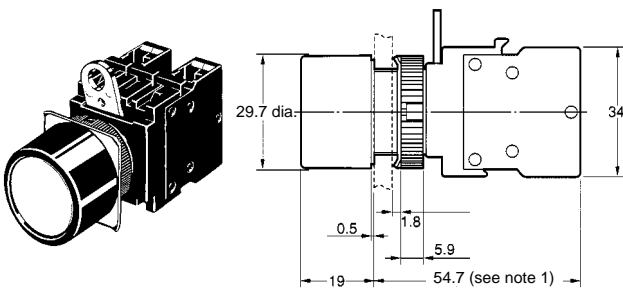
**Half-guard Type
A22-H, A22L-H**



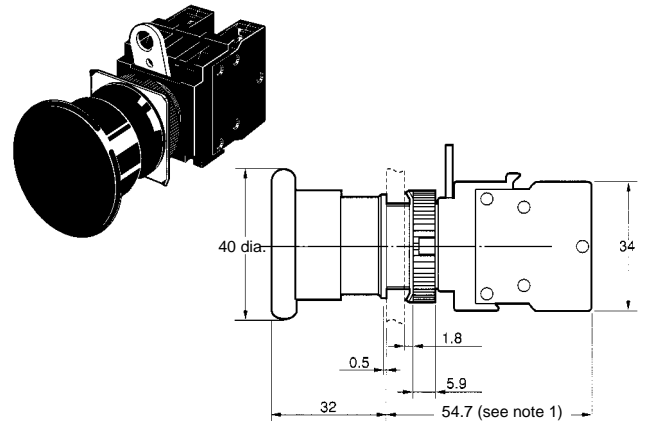
**Projection Type
A22-T, A22L-T**



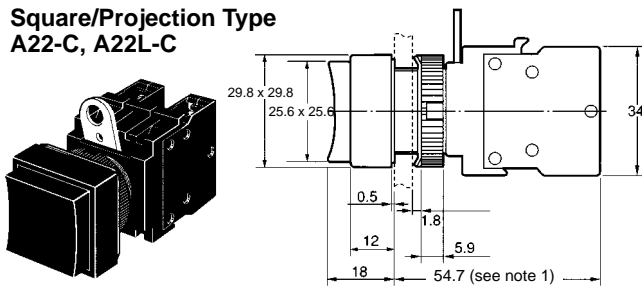
**Full-guard Type
A22-G, A22L-G**



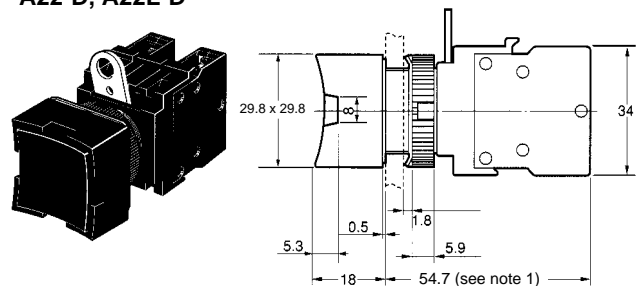
**40-dia. Mushroom Type
A22-M**



**Square/Projection Type
A22-C, A22L-C**



**Square Full-guard Type
A22-D, A22L-D**



Note: 1. Latching operation models are 9.2 mm longer.
 2. Lighted models have the same dimensions as shown above, whether they are with transformers or without transformers.

■ Terminal Arrangement

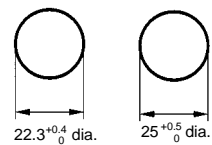
Terminal Arrangement (Bottom View)

| Non-lighted (SPST-NO + SPST-NC) | Lighted (SPST-NO + SPST-NC) | Non-lighted (DPST-NO + DPST-NC) |
|---------------------------------|-----------------------------|---------------------------------|
| | | |

Terminal Connection

| Type | Terminal connection |
|---|---------------------------|
| Non-lighted (SPST-NO + SPST-NC) | <p>Bottom view</p> |
| Non-lighted (DPST-NO + DPST-NC) | <p>Bottom view</p> |
| Lighted without transformer (SPST-NO + SPST-NC) | <p>Bottom view</p> |
| Lighted with transformer (SPST-NO + SPST-NC) | <p>Bottom view</p> |

Panel Cutout Dimensions





Note: When applying coating such as paint to the panel, the dimensions should be those after the application of coating. Lock fitting is provided as a standard item.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.







To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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