











<b>Accessories</b>							
Terminal Cover		N-VL2	N-VL3	N-VL4	APN-PVL	APD-PVL	Use of terminal covers increases the depth by the dimensions below. 
ø30 Series Control Unit		 38.4H × 22W	 38H × 30.4W	 38.4H × 24W	 38H × 46W	 37H × 44W	
Pilot Light APN, APNE, UPQN, UPQNE	Full Voltage				X		+5.0 mm
Pilot Light APD, APDE						X	+5.2 mm
Pilot Light APN, APNE, APD, APDE, UPQN, UPQNE	Transformer DC-DC Converter		X				+2.7 mm
Pushbutton ABN, ABD, AON, AOD, AVN, ABGD, AJN, ABFD, ATN, AOFD, UBQN, AVD, UOQN, AJD, UWQN, AZD, ABBN, AYD, ABBS (ø25)  Selector Switch ASN, ASD, ASTN  Selector Pushbutton ABN, ASBD	1 contact block 	X					+0 mm
	2 contact blocks 	X 2 pieces					
	3 contact blocks 	X 2 pieces					
	4 contact blocks 	X 2 pieces					
Illuminated Pushbutton ALN, ALD, ALNE, ALDE, AOLN, AOLD, AOLNE, AOLDE, ALGN, ALGD, ALGNE, ALGDE, AOLGN, AOLGDE, ALFN, ALFD, ALFNE, ALFDE, AOLFNE, AOLFD, AOLFNE, AOLFDE, AVLN, AVLD, AVLNE, AVLDE, AJLN, AJLD, AJLNE, AJLDE, ULQN, UOLQN	Full Voltage			X 2 pieces			+4.5 mm
Illuminated Selector Switch ASLN, ASLD	Transformer DC-DC Converter		X				+1.5 mm
Push-to-Check Pilot Light APN1**P							

• **Ordering Terminal Covers**  
 When ordering terminal covers, specify the Type No. and the quantity.

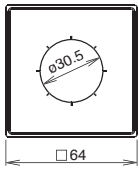
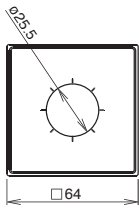
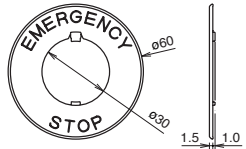
# ø30 ø30 series Accessories and Replacement Parts

## Nameplates

Type	Legend	Material	Type No.	Ordering Type No.	Package Quantity	Dimensions (mm)	Applicable Unit
NA	Blank	Aluminium 1.2 mm thick White letters on black background	NA-0	NA-0	1		ø30 Control Unit
				NA-0PN10	10		
	With Legend		NA-*	1			
			NA-*PN10	10			
NALO	Blank	Aluminium 1.2 mm thick Black	NALO	NALO	1		
				NALOPN10	10		
MLO	Blank	Brass (chrome-plated) 1.0 mm thick Matte	MLO	MLO	1		ARN/ARNS Mono-Lever
				MLOPN10	10		
CQ	Blank	Aluminium 0.5 mm thick White letters on black background	CQ-0	CQ-0	1	<ul style="list-style-type: none"> <li>• With adhesive tapes on the back</li> </ul>	UCSQO Cam Switch
				CQ-0PN10	10		
	With Legend (Legend Codes 31 and 53 only)		CQ-*	1			
			CQ-*PN10	10			
CQM	Blank	Aluminium 0.5 mm thick White letters on black background	CQM-0	CQM-0	1	<ul style="list-style-type: none"> <li>• With adhesive tapes on the back</li> </ul>	UCSQM Cam Switch
				CQM-0PN10	10		
	With Legend (Legend Code 31 only)		CQM-*	1			
			CQM-*PN10	10			

• Specify a legend code in place of \* in the Ordering Type No.

**Nameplates**

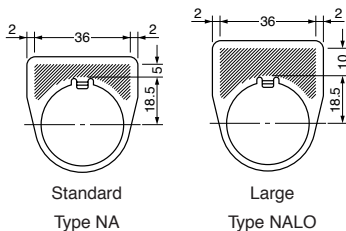
Type	Legend	Material	Type No.	Ordering Type No.	Package Quantity	Dimensions (mm)	Applicable Unit
CQN	Blank	Aluminium 0.5 mm thick White letters on black background	CQN-0	CQN-0	1	<ul style="list-style-type: none"> <li>• With adhesive tapes on the back</li> </ul> 	ACSNO, ACSNK Cam Switches ø30 mm Selector Switches
				CQN-0PN10	10		
	With Legend (Legend Codes 31, 35, and 53 only)		CQN-*	CQN-*	1		
				CQN-*PN10	10		
CQS	Blank	Aluminium 0.5 mm thick White letters on black background	CQS-0	CQS-0	1	<ul style="list-style-type: none"> <li>• With adhesive tapes on the back</li> </ul> 	ACSSO, ACSSK Cam Switches ø25 mm Selector Switches
				CQS-0PN10	10		
	With Legend (Legend Code 53 only)		CQS-*	CQS-*	1		
				CQS-*PN10	10		
HNAV	Blank	Polyamide Black letters on yellow background	HNAV-0	HNAV-0	1		HN1E ø30 mm series Emergency Stop Switches
	EMERGENCY		HNAV-27	HNAV-27	1		

• Specify a legend code in place of \* in the Ordering Type No.

**Legends**

Code	Legend
0	(blank)
1	ON
2	OFF
3	START
4	STOP
31	OFF-ON
35	HAND-AUTO
53	HAND-OFF-AUTO

**Shape and Engraving Area**




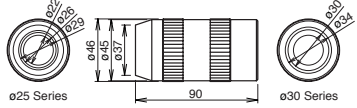



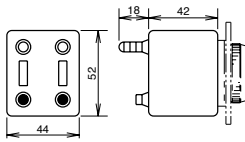

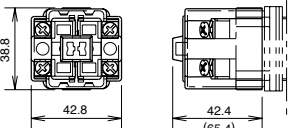

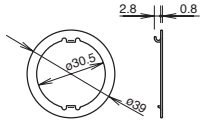

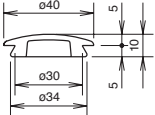

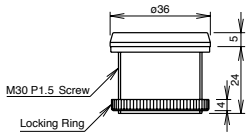

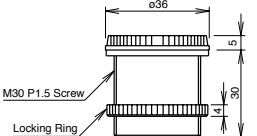
**Example**

Shape	Engraving Area		Max. No. of Lines	No. of Letters on 1 Line
	Height	Width		
Standard	5	36	1	14
Large	10	36	2	14


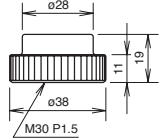

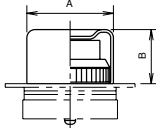

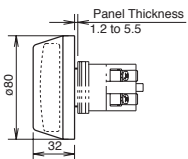

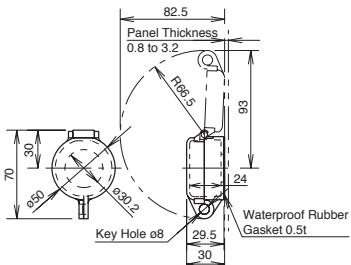

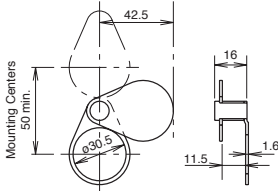

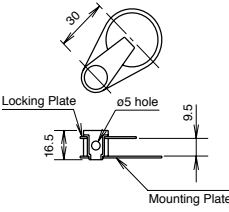
• The above example is when the letter is 4 mm tall.

# ø30 ø30 series Accessories and Replacement Parts

## Accessories








Shape	Material	Type No.	Ordering Type No.	Package Quantity	Dimensions (mm)
	Rubber	OR-12	OR-12	1	<ul style="list-style-type: none"> <li>Used to tighten the locking ring when installing the ø30 or ø25 switch onto a panel.</li> </ul> 
	Rubber	OR-55	OR-55	1	<ul style="list-style-type: none"> <li>Used to install and remove the LED/incandescent lamps. See page 64.</li> </ul> 
Contact Rubber Boot For momentary 1 layer of contact blocks (2 contact blocks) 	Rubber (nitril) (black)	OC-99	OC-99	1	<ul style="list-style-type: none"> <li>Rubber boot used to prevent oil and dirt from entering into the contact block.</li> <li>Temperature range: -5 to +60°C</li> <li>Cannot be used for zinc diecast control units.</li> </ul> 
Contact Rubber Boot 	Rubber (translucent)	OC-90	OC-90	1	<ul style="list-style-type: none"> <li>Applicable to AVN3 and AJN3.</li> <li>Applicable to ø30 diecast zinc pushbuttons and selector switches.</li> </ul> 
For 2 layers of contact blocks (4 contact blocks)		OC-290	OC-290	1	
Anti-rotation Ring 	Metal	OGL-11	OGL-11PN10	10	<ul style="list-style-type: none"> <li>Used to prevent the operator from turning. Generally used when using no nameplates on selector switches and selector pushbuttons. See page 64.</li> </ul> 
Rubber Mounting Hole Plug 	Rubber (black)	OB-13B	OB-13BPN05	5	<ul style="list-style-type: none"> <li>Used to plug unused ø30mm mounting holes.</li> <li>Gray also available. Ordering Type No.: OB-13BPN05</li> </ul> 
Plastic Mounting Hole Plug 	Plastic (gray)	OBP-11	OBP-11	1	<ul style="list-style-type: none"> <li>Tightening torque: 1.2 N·m.</li> <li>Degree of protection: IP65</li> </ul> 
Metallic Mounting Hole Plug 	Metal (diecast) (zinc-plated)	OB-11	OB-11	1	<ul style="list-style-type: none"> <li>Tightening torque: 1.2 N·m.</li> <li>Degree of protection: IP65</li> </ul> 

**Accessories**

Shape		Material	Type No.		Ordering Type No.	Package Quantity	Dimensions (mm)
		Rubber (nitril)	Color	Type	—	—	<ul style="list-style-type: none"> <li>• Metallic bezels covered with a rubber boot to enhance waterproof characteristics.</li> <li>• Button is not included. Applicable to extended pushbuttons only.</li> </ul> 
			Black	OC-11B	OC-11B	1	
			Green	OC-11R	OC-11R		
			Red	OC-11G	OC-11G		
			Yellow	OC-11Y	OC-11Y		
	For flush pushbuttons	Rubber (EPDM)	OC-121		OC-121	1	<ul style="list-style-type: none"> <li>• Used to cover and protect pushbuttons where units are subject to water splash. Not suitable for outdoor use or where the units are subject to oil splash.</li> </ul> 
	For extended pushbuttons		OC-122		OC-122		
		Rubber (nitril) black	OC-4GN	OC-4GN	1	<ul style="list-style-type: none"> <li>• Used for ABN4G pushbuttons.</li> </ul> 	
		Polyarylate (gasket: nitril rubber)	OL-KL1	OL-KL1	1	<ul style="list-style-type: none"> <li>• Used to protect pushbuttons, illuminated pushbuttons, and selector switches (knob operator).</li> </ul> 	
		Metal (zinc-plated)	OL-C	OL-C	1	<ul style="list-style-type: none"> <li>• Used to protect flush pushbuttons from inadvertent operation.</li> <li>• Can be easily attached using the locking ring.</li> </ul> 	
		Metal (zinc-plated)	OL-H	OL-H	1	<ul style="list-style-type: none"> <li>• Used to lock an extended pushbutton in the depressed position.</li> <li>• Can be easily attached using the locking ring.</li> </ul> 	

## ø30 ø30 series Accessories and Replacement Parts

### Maintenance Parts

Shape	Specification	Type No.	Ordering Type No.	Package Quantity	Remarks
	Metal (chrome-plated)	OG-11	OG-11PN02	2	
	Plastic	OGP-11*	OGP-11*PN02	2	Specify a color code in place of *. B (black), G (green), R (red), W (white), Y (yellow)
	Clear Plastic	OGP-13	OGP-13PN02	2	<ul style="list-style-type: none"> <li>• Clear plastic bezel and full shroud.</li> <li>• OGP-1411 cannot be used with LED illumination units and diecast units.</li> </ul>
		OGP-14	OGP-14PN02	2	
		OGP-1411	OGP-1411	1	
	Clear Plastic	ABN1B-C	ABN1B-CPN05	5	<ul style="list-style-type: none"> <li>• Used on flush and extended pushbuttons to indicate a mark or a symbol engraved on the marking plate. The clear button cover holds the marking plate. The ø30 series marking chip can only be used on the ABN1 and AON1.</li> </ul>
	Plastic	TN-0*	TN-0*PN10	10	<ul style="list-style-type: none"> <li>• Specify a color code in place of *. B (black), G (green), R (red), W (white), Y (yellow)</li> </ul>








**Maintenance Parts**

Shape	Description	Material	Type No.	Ordering Type No.	Package Quantity	Color	
	1NO contact		BS010E	BS010E	1	• Push rod color: Green	
	1NC contact		BS001E	BS001E	1	• Push rod color: Red	
	EM contact (early make)		BS010SE	BS010SE	1	• Push rod color: Black	
	LB contact (late break)		BS001SE	BS001SE	1	• Push rod color: White	
	1NO contact		BST010	BST010	1	• Push rod color: Green	Applicable Units: • Pushlock Turn Reset • Push Turn Lock • LED Illuminated Pushbutton • LED Illuminated Selector Switch • Incandescent Illuminated Selector Switch • All ø30 Diecast Zinc Control Units
	1NC contact		BST001	BST001	1	• Push rod color: Red	
	EM contact (early make)		BST010S	BST010S	1	• Push rod color: Black	
	LB contact (late break)		BST001S	BST001S	1	• Push rod color: White	
	Used for APN(E)1	Plastic	APN106LN-②	APN106LN-②PN05	5	A (amber), C (clear), G (green), R (red), S (blue), W (white), Y (yellow) • Use the white (W) lens for pure white illumination	
	Used for UPQNE4 U(O)LQN*B		UPQN406L-②	UPQN406L-②PN05	5	C (clear), G (green), R (red), S (blue) • Use the clear (C) lens for white illumination.	
			UPQN406LD-②	UPQN406LD-②PN05		A (amber), Y (yellow) • Use the amber (A) lens for orange illumination.	
	Used for UPQN3B U(O)LQN		ULQN06L-②	ULQN06L-②PN05	5	C (clear), G (green), R (red), S (blue)	
			UPQN06LD-②	UPQN06LD-②PN05		A (amber), W (white), Y (yellow) • Use the amber (A) lens for orange illumination.	
	Used for ALN, AOLN (LED)	Plastic	ALN2L-②	ALN2L-②PN05	5	G (green), R (red), S (blue)	
			ALN2LD-②	ALN2LD-②PN05	5	A (amber), W (white), Y (yellow) • Use the white (W) lens for pure white illumination	
	Used for ALN, AOLN (incandescent) (1W)		ALN06L-②	ALN06L-②PN05	5	C (clear), G (green), R (red), S (blue)	
			ALN06LD-②	ALN06LD-②PN05	5	A (amber), W (white) • Use the amber (A) lens for orange illumination.	
	Used for ALN, AOLN (incandescent) (2W)		ALN08L-②	ALN08L-②PN05	5	C (clear), G (green), R (red), S (blue)	
			ALN08LD-②	ALN08LD-②PN05	5	A (amber), W (white) • Use the amber (A) lens for orange illumination.	
	Flush	Plastic	ABN1B-①	ABN1B-①PN05	5	G (green), R (red), Y (yellow) Above colors are used for ø30 control units (dark colored operator units). For black, use black buttons from light colored operator units.	
	Extended		ABN2B-①	ABN2B-①PN05	5		
	Mushroom		ABN3B-①	ABN3B-①PN02	2		
	Flush	Plastic	ABN1BN-①	ABN1BN-①PN05	5	B (black), G (green), R (red), S (blue), Y (yellow), W (white) Above colors are used for ø30 diecast zinc control units (light colored operator units).	
	Extended		ABN2BN-①	ABN2BN-①PN05	5		
	Mushroom		ABN3BN-①	ABN3BN-①PN02	2		
	① Mushroom (ABN4)	Plastic	ABN4B-①	ABN4B-①	1	B (black), G (green), R (red), Y (yellow)	
	② Mushroom (ABN4G/ABN4F)		ABN4GB-①	ABN4GB-①	1		
	③ Square Flush (UBQN1)		UBQN1B-①	UBQN1B-①PN02	2		
	④ Square Extended (UBQN2)		UBQN2B-①	UBQN2B-①PN02	2		

Note: Specify a button color code or lens color code in place of ① or ② in the Ordering Type No.

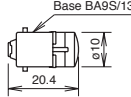
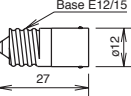
# ø30 ø30 series Accessories and Replacement Parts

## Maintenance Parts

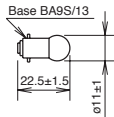
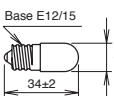
Shape	Description	Material	Type No.	Ordering Type No.	Package Quantity	Remarks
	For ø40 pushlock turn reset pushbuttons		AVLN3L-R	AVLN3L-RPN02	2	
	For UPQN4	Plastic	UPQN406N-W	UPQN406N-WPN05	5	
	ASN*K	Metal	ASN-SK-24401	ASN-SK-24401PN02	2	• Applicable to ABN3K, ABN4K, ABN5
		Rubber	OW-12	OW-12PN10	10	
		Rubber	OW-11	OW-11PN10	10	
	① Half shroud (for pushbuttons)	Metal	ABN2G	ABN2G	1	
	② Full shroud (for pushbuttons)		ABN2F	ABN2F	1	
	③ Full shroud (for mushroom pushbuttons)		ABN3G	ABN3G	1	
	④ Shallow shroud (for jumbo mushrooms)		ABN4G	ABN4G	1	
	⑤ Deep shroud (for jumbo mushrooms)		ABN4F	ABN4F	1	
	⑥ Half shroud (for illuminated pushbuttons)		ALN1GL	ALN1GL	1	• For incandescent/LED illuminated pushbuttons (E12 base)
			ALN2GL	ALN2GL	1	• For LED illuminated pushbuttons (BA9S base)
	⑦ Full shroud (for illuminated pushbuttons)		ALN1F	ALN1F	1	• For incandescent/LED illuminated pushbuttons (E12 base)
	ALN2FL	ALN2FL	1	• For LED illuminated pushbuttons (BA9S base)		
	100/110V AC (for LED/1W incandescent lamps)		TWR-016N	TWR-016N	1	Mounting screws are not included.
	200/220V AC (for LED/1W incandescent lamps)		TWR-026N	TWR-026N	1	

**Maintenance Parts**



**LED Lamps**

Dimensions	Operating Voltage	Current Draw		Type No.	Ordering Type No.	Illumination Color Code	Package Quantity	Base	
		AC	DC						
 <p>Base BA9S/13</p>	6V AC/DC ±10%	17 mA (A, R, W, Y) 8 mA (G, PW, S)	14 mA (A, R, W, Y) 5.5 mA (G, PW, S)	LSTD-6②	LSTD-6②	Specify a color code in place of ② in the Ordering Type No.	1	BA9S/13	
					LSTD-6②PN10		10		
	12V AC/DC ±10%	11 mA	10 mA	LSTD-1②	LSTD-1②	A: amber G: green PW: pure white R: red S: blue W: white Y: yellow	1		
					LSTD-1②PN10		10		
	24V AC/DC ±10%	11 mA	10 mA	LSTD-2②	LSTD-2②		1		
					LSTD-2②PN10		10		
 <p>Base E12/15</p>	6V AC/DC ±10%	17 mA (A, R, W, Y) 8 mA (G, PW, S)	14 mA (A, R, W, Y) 5.5 mA (G, PW, S)	LETD-6②	LETD-6②		Specify a color code in place of ② in the Ordering Type No.	1	E12/15
					LETD-6②PN10			10	
	12V AC/DC ±10%	7 mA	6.5 mA	LETD-8②	LETD-8②	A: amber G: green R: red S: blue W: white Y: yellow	1		
					LETD-8②PN10		10		
	24V AC/DC ±10%	11 mA	10 mA	LETD-2②	LETD-2②		1		
					LETD-2②PN10		10		

**Incandescent Lamps**

Dimensions	Rated Operating Voltage	Lamp Ratings	Type No.	Package Quantity	Life
 <p>Base BA9S/13</p>	6V AC/DC	1W (6.3V)	LS-6	1	Approx. 1000 hours minimum (reference value)
	12V AC/DC	1W (18V)	LS-8		
	18V AC/DC	1W (24V)	LS-2		
	24V AC/DC	1W (30V)	LS-3		
 <p>Base E12/15</p>	6V AC/DC	2W (6.3V)	LE-6	1	
	12V AC/DC	2W (18V)	LE-8		
	18V AC/DC	2W (24V)	LE-2		
	24V AC/DC	2W (30V)	LE-3		

**Transformer**

Separate Mounting Type	Primary Voltage	Secondary Voltage	Type No.	Applicable Load
 <p>For 1W</p>	100/110V AC	5.5V	TWR516	One full voltage type pilot light or illuminated switch containing LSTD-6②, LETD-6② LED lamp (6V AC/DC) or LS-6 incandescent lamp (6.3 V AC/DC, 1W)
	200/220V AC		TWR526	
	400/440V AC		TWR546	
 <p>For 2W</p>	100/110V AC	15V	TWR518	One full voltage type pilot light or illuminated switch containing LE-8 incandescent lamp (18V AC/DC, 2W)
	200/220V AC		TWR528	
	400/440V AC		TWR548	