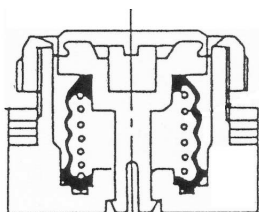


Features

■ **Oil and dust-proof construction**

Protection complies with IEC Standard IP65. Special seals keep out oil, water, dust, and chips. This gives FUJI switches superior performance where dampness and dirt are likely to cause trouble. FUJI recommended where reliability is important.



■ **A wide variety of operators**

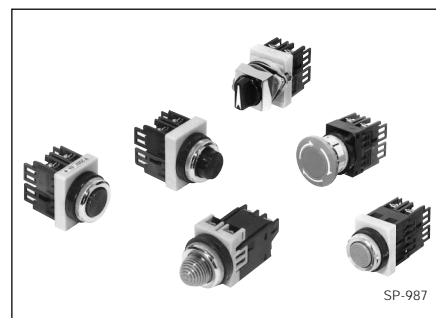
Pushbuttons, illuminated pushbuttons, 2- or 3-position selector switches, and key-operated selector switches, etc. Choose the one you need.

■ **Contact blocks available up to 4NO+4NC**

The AH25 series controls from one to eight control blocks in combination. Each contact block contains a set of 1NO or 1NC contacts.

■ **Terminal covers**

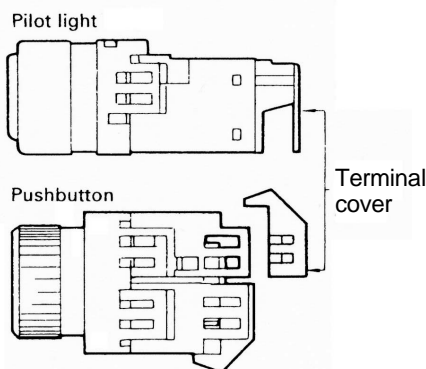
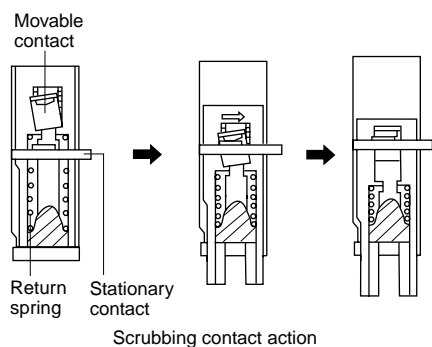
Terminal covers make mounting safe. These covers can be used to indicate device numbers.



SP-987

■ **Slide-action self-cleaning contacts**

All contacts are double-break and self-cleaning. With each operation, the contact surfaces are wiped by sliding that ensures positive engagement and excellent conductivity even in very low level circuits (5V, 5mA) and in corrosive environments.



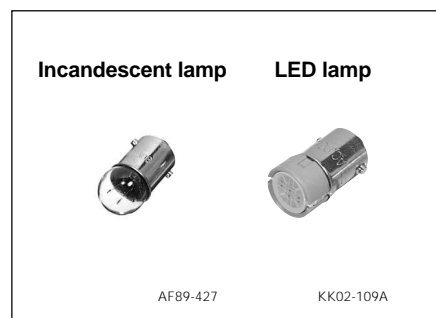
■ **Easily replaced color tips**

Only a screwdriver is needed to replace the buttons. A wide variety of colors available to suit to your needs.



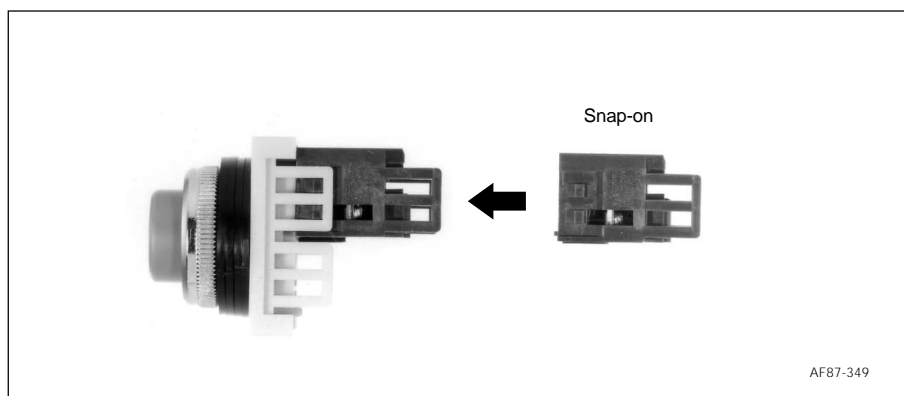
■ **Bright, long-life lamp**

LED lamps that have a longer service life than standard incandescent lamps are available. FUJI LED lamps are bright and can be used with both AC and DC, much the same way as incandescent lamps.





■ **Snap-on contact blocks and transformer**

The contact blocks are easily snapped on, without using screws. Light transformers can also be mounted without tools.



■ **Approvals**

UL listed 
 CSA certified 

For further information related to approved type, see page 04CD/3/2 to 04CD/3/4


Pushbuttons/Selectors/Pilot Lights

AH25


Quick reference guide

■ Pushbutton switches

Type	Description	Type	Description
AH25-F Flush round head   AF87-312	The button surface is flush with the locking nut. Momentary type. See page 04CD/3/10	AH25-M Mushroom head   SG-185	Mushroom head button. Momentary type. See page 04CD/3/10
AH25-F5 Flush round head /Alternate action   SG-166	The button surface is flush with the locking nut. Push-ON/push-OFF type. See page 04CD/3/10	AH25-M5 Mushroom head /Alternate action   SG-183	Mushroom head button. Push-ON/push-OFF type. See page 04CD/3/10
AH25-E Extended round head   AF87-314	The button surface projects 7mm from the locking nut. Momentary type. See page 04CD/3/10	AH25-V Push-lock, turn-reset   AF89-414	Locked when the button is pushed. To reset turn the button to the right. See page 04CD/3/11
AH25-E5 Extended round head /Alternate action   SG-175	The button surface projects 7mm from the locking nut. Push-ON/push-OFF type. See page 04CD/3/10	AH25-U Wobble stick   SG-202	The contact works when the lever is moved in any direction. Spring return action. See page 04CD/3/11
AH25-G Extended with half guard   SG-171	The upper half of the button has a guard ring to help prevent operating errors. Momentary type. See page 04CD/3/10	AH25-SF Flush square head   SG-208	The button surface is flush with the guard. Momentary type. Operator protection conforms to IP40. See page 04CD/3/11
AH25-G5 Extended with half guard /Alternate action   SG-172	The upper half of the button has a guard ring to help prevent operating errors. Push-ON/push-OFF type. See page 04CD/3/10	AH25-SF5 Flush square head /Alternate action   SG-210	The button surface is flush with the guard. Push-ON/push-OFF type. Operator protection conforms to IP40. See page 04CD/3/11
AH25-G1 Extended with full guard   AF87-179	The button has a guard ring to help prevent operating errors. Momentary type. See page 04CD/3/10	AH25-SE Extended square head   SG-206	The button surface projects 7mm from the guard. Momentary type. Operator protection conforms to IP40. See page 04CD/3/11
AH25-G6 Extended with full guard /Alternate action   SG-176	The button has a guard ring to help prevent operating errors. Push-ON/push-OFF type. See page 04CD/3/10	AH25-SE5 Extended square head /Alternate action   SG-207	The button surface projects 7mm from the guard. Push-ON/push-OFF type. Operator protection conforms to IP40. See page 04CD/3/11

Type	Description
AH25-S1, S2, S3, S4, S5, S6 Pushbutton with selector ring (2-position) 	Turning the ring to the left or right changes over the contact. See page 04CD/3/13

■ Mechanically interlocked pushbutton switches

Type	Description
AH25-□/□ Mechanically interlocked 	Two buttons are interlocked by a lever. When one is ON, the other is OFF. See page 04CD/3/14

■ Illuminated pushbutton switches















Type	Description	Type	Description
AH25-L Extended round head 	The surface of the illuminated button projects about 15mm from the locking nut. Momentary type. See page 04CD/3/15	AH25-L4 Extend with transparent full guard 	The illuminated button has a guard ring to help prevent operating errors. Momentary action. See page 04CD/3/15
AH25-L5 Extended round head /Alternate action 	The surface of the illuminated button projects about 15mm from the locking nut. See page 04CD/3/15	AH25-VL Push-lock, turn-reset 	Locked when the illuminated button is pushed. To reset, turn the button to the right. See page 04CD/3/16
AH25-L2 Extended with full guard (With openings) 	The illuminated button has a guard ring to help prevent operating errors. Momentary type. See page 04CD/3/15	AH25-SL Extended square head 	The illuminated button projects about 8mm from the guard. Momentary type. Operator protection conforms to IP40. See page 04CD/3/16
AH25-L6 Extended with full guard (With openings) /Alternate action 	The illuminated button has a guard ring to help prevent operating errors. Push-ON/push-OFF type. See page 04CD/3/15	AH25-SL5 Extended square head / Alternate action 	The illuminated button projects about 8mm from the guard. Push-ON/push-OFF type. Operator protection conforms to IP40. See page 04CD/3/16
AH25-L3 Extended with full guard 	The illuminated button has a guard ring to help prevent operating errors. Momentary action. See page 04CD/3/15	AH25-SL1 Flush square head 	The illuminated button has a built-in legend plate. Momentary type. Operator protection conforms to IP40. See page 04CD/3/16
AH25-L7 Extended with full guard /Alternate action 	The illuminated button has a guard ring to help prevent operating errors. Push-ON/push-OFF type. See page 04CD/3/15	AH25-SL6 Flush square head/ Alternate action 	The illuminated button has a built-in legend plate. Push-ON/push-OFF type. Operator protection conforms to IP40. See page 04CD/3/16

Pushbuttons/Selectors/Pilot Lights











AH25

Quick reference guide

■ Selector switches

Type	Description	Type	Description
AH25-P Knob   SG-188	This switch works when the knob is turned. Operating positions : 2 or 3 Operating : Maintained, spring return, and spring/manual return. <i>See page 04CD/3/18</i>	AH25-SJ Key with square bezel   SG-226	This switch works with a key inserted. Operator protection conforms to IP40. Operating positions : 2 or 3 Operating : Maintained. <i>See page 04CD/3/18</i>
AH25-PC Knob operated control type   AF89-596	21 types of operation are available using a cam for performing complex controls. <i>See page 04CD/3/22</i>	AH25-PW Lever   SP-1007	The lever extends out 13mm from the knob. Operating positions : 2 or 3 Operating : Maintained, spring return, and spring/manual return. <i>See page 04CD/3/18</i>
AH25-J Key   SG-233	This switch works when the key is inserted. Operating positions : 2 or 3 Operating : Maintained, spring return, and spring/manual return. <i>See page 04CD/3/18</i>	AH25-PL Illuminated knob   AF89-622	Illuminated switch with a lamp built into the knob. Operating positions : 2 or 3 Operating : Maintained. <i>See page 04CD/3/23</i>
AH25-SP Knob with square bezel   SG-196	This switch works when the knob is turned. Operator protection conforms to IP40. Operating positions : 2 or 3 Operating : Maintained. <i>See page 04CD/3/18</i>	—	—

■ Pilot lights

Type	Description	Type	Description
AH25-ZM* Dome   SF-1095	This pilot light uses a round transparent colored lens. <i>See page 04CD/3/25</i>	AH25-ZN Flush square with legend plate   SF-1092	This pilot light has a built-in square legend plate on which characters and symbols can be marked. Operator protection conforms to IP40. <i>See page 04CD/3/25</i>
AH25-ZK* Faceted   SF-1094	This pilot light uses a faceted transparent colored lens. <i>See page 04CD/3/25</i>	AH25-ZM□8, □9 Dome (Short-body with transformer)   SH-971	This pilot light has a short-body transformer. <i>See page 04CD/3/25</i>
AH25-ZS Extended square   SF-1093	This pilot light uses a square lens. Operator protection conforms to IP40. <i>See page 04CD/3/25</i>	—	—

Note: * With resistor unit types: Not approved standard

■ **Type number nomenclature**
Pushbuttons

AH25 - E R 11

① ② ③ ④

① **Product category**

AH25: 25mm-dia. pushbutton

② **Operator**

F: Flush round head
F5: Flush round head(Alternate action)
E: Extended round head
E5: Extended round head(Alternate action)
G: Extended with half guard
G5: Extended with half guard (Alternate action)
G1: Extended with full guard
G6: Extended with full guard (Alternate action)
M: Mushroom head
M5: Mushroom head (Alternate action)
V: Push-lock, turn-reset
U: Wobble stick
SF: Flush square head
SF5: Flush square head (Alternate action)
SE: Extended square head
SE5: Extended square head (Alternate action)
S1-S6: Pushbutton with selector ring (2-position)

③ **Color of button**

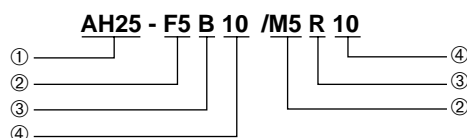
G: Green D: Dark green
R: Red Y: Yellow
W: White B: Black*
S: Sky-blue O: Orange

*AH25-U type: ball color Black only.

④ **Contact arrangement**

10: 1NO	30: 3NO
01: 1NC	03: 3NC
11: 1NO+1NC	33: 3NO+3NC
20: 2NO	40: 4NO
02: 2NC	04: 4NC
22: 2NO+2NC	44: 4NO+4NC

Mechanically interlocked pushbutton switches



① **Product category**

AH25: 25mm-dia. interlocked pushbutton

② **Combination of operator and operation mode**

• Latched/Latched
F5/F5: Flush (Push-locked)/Flush (Push-locked)
F5/E5: Flush (Push-locked)/Extended (Push-locked)
M5/M5: Mushroom (Push-locked)/Mushroom (Push-locked)
• Latched/Unlatched
F5/F: Flush (Push-locked)/Flush (Momentary)
E5/E: Extended (Push-locked)/Extended (Momentary)
M5/M: Mushroom (Push-locked)/Mushroom (Momentary)

③ **Button color**

G: Green
R: Red
B: Black
D: Dark green
Y: Yellow
W: White
S: Sky-blue
O: Orange

④ **Contact arrangement**

10: 1NO
01: 1NC
11: 1NO+1NC
20: 2NO
02: 2NC

Illuminated pushbuttons

AH25 - L5 G 11 H 3

① ② ③ ④ ⑤ ⑥

① **Product category**

AH25: 25mm-dia. illuminated pushbutton

② **Operator**

L: Extended round head
L5: Extended round head (Alternate action)
L2: Extended with full guard (With openings)
L6: Extended with full guard (With openings alternate action)
L3: Extended with full guard
L7: Extended with full guard (Alternate action)
L4: Extended with transparent full guard
VL: Push-lock, turn-reset
SL: Extended square head
SL5: Extended square head (Alternate action)
SL1: Flush square head
SL6: Flush square head (Alternate action)

③ **Color of lens**

G: Green S: Sky-blue*
R: Red Y: Yellow
W: White O: Orange

* For LED lamp: Not available

④ **Contact arrangement**

10: 1NO	30: 3NO
01: 1NC	03: 3NC
11: 1NO+1NC	33: 3NO+3NC
20: 2NO	40: 4NO
02: 2NC	04: 4NC
22: 2NO+2NC	44: 4NO+4NC

⑤ **Lamp voltage**

• Without transformer:

	Incandescent	LED
Blank	5.5V	-
A	-	6V AC
AD	-	6V DC
B	-	12V AC/DC
C	15V AC/DC	15V AC/DC
D	20V AC/DC	-
E	24V AC/DC	24V AC/DC

• With transformer:

	Incandescent	LED
H	100-110V AC	100-110V AC
L	115-127V AC	115-127V AC
M	200-220V AC	200-220V AC
Q	230-254V AC	230-254V AC
S	350-380V AC	350-380V AC
T	400-440V AC	400-440V AC
V	480V AC	480V AC
W	500-550V AC	500-550V AC

⑥ **Type of lamp**

Blank: Incandescent lamp
3: LED lamp

Note: • The manufacturing varies depending on the model. For details, refer to the contents of this catalog

Pushbuttons/Selectors/Pilot Lights

AH25

Type number nomenclature

Selector and illuminated selector switches

AH25 - PL 3 □ G 22 E 3 □

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Product category

AH25: 25mm-dia. selector and illuminated selector switch

② Operator

P: Knob
 PC: Knob operated control type
 J: Key
 SP: Knob with square bezel
 SJ: Key with square bezel
 PW: Lever
 PL: Illuminated knob

③ Operating

2: 2-position, maintained
 0: 2-position, spring return (Right to left)
 3: 3-position, maintained
 6: 3-position, spring/manual return (Left to center)
 7: 3-position, spring/manual return (Right to center)
 1: 3-position, center spring return
 Blank: 3-position, maintained (Control type only)

④ Key removable position

A: Left
 B: Left and right
 C: Left, center and right
 D: Right
 E: Center
 F: Center and right
 G: Center and left

⑤ Color of knob

B: Black *¹ G: Green
 R: Red Y: Yellow*³
 W: White*³ O: Orange*³
 S: Sky-blue*^{2,3}

*¹ Except for illuminated type
 *² For LED lamp: Not available
 *³ Illuminated type only

⑥ Contact arrangement

10: 1NO 30: 3NO
 01: 1NC 03: 3NC
 11: 1NO+1NC 33: 3NO+3NC
 20: 2NO 40: 4NO
 02: 2NC 04: 4NC
 22: 2NO+2NC 44: 4NO+4NC

Note: Control type: See page 04CD/3/22

⑦ Lamp voltage

• Without transformer:

	Incandescent	LED
Blank	5.5V AC/DC	-
A	-	6V AC
AD	-	6V DC
B	-	12V AC/DC
C	15V AC/DC	15V AC/DC
D	20V AC/DC	-
E	24V AC/DC	24V AC/DC

• With transformer:

	Incandescent	LED
H	100-110V AC	100-110V AC
L	115-127V AC	115-127V AC
M	200-220V AC	200-220V AC
Q	230-254V AC	230-254V AC
S	350-380V AC	350-380V AC
T	400-440V AC	400-440V AC
V	480V AC	480V AC
W	500-550V AC	500-550V AC

⑧ Type of lamp

Blank: Incandescent lamp
 3: LED lamp

⑨ Key code No.

A, B, C, D, E or F

Pilot lights

AH25 - ZM W Q 3

① ② ③ ④ ⑤

① Product category

AH25: 25mm-dia. pilot light

② Lens

ZM: Dome
 ZK: Faceted
 ZS: Extended square*
 ZN: Flush square with legend plate*

* Incandescent lamp only

③ Color of lens

G: Green S: Sky-blue*
 R: Red Y: Yellow
 W: White O: Orange

* For LED lamp: Not available

④ Lamp voltage

• Without transformer:

	Incandescent	LED
Blank	5.5V AC/DC	-
A	-	6V AC
AD	-	6V DC
B	-	12V AC/DC
C	15V AC/DC	15V AC/DC
D	20V AC/DC	-
E	24V AC/DC	24V AC/DC

• With transformer:

	Incandescent	LED
H	-	110V DC*
H	100-110V AC	100-110V AC
L	115-127V AC	115-127V AC
M	200-220V AC	200-220V AC
Q	230-254V AC	230-254V AC
S	350-380V AC	350-380V AC
T	400-440V AC	400-440V AC
V	480V AC	480V AC
W	500-550V AC	500-550V AC

* With resistor unit only

⑤ Type of lamp

Blank: Incandescent lamp
 8: Incandescent lamp/Short-body with transformer
 3: LED lamp
 7: LED lamp/With resistor unit
 9: LED lamp/Short-body with transformer

Note: • The manufacturing varies depending on the model. For details, refer to the contents of this catalog

Pushbuttons/Selectors/Pilot Lights
AH25
Ratings and specifications

■ **Standards approved**

UL508	File No. E44592
CSA C22.2 No.14	File No. LR20479

■ **Specifications**

Description	Pushbutton switch Illuminated pushbutton switch Mechanically interlocked pushbutton switch Selector switch Illuminated selector switch	Pilot light
Rated insulation voltage	600V AC/DC *1	
Mechanical durability	<i>See the table below</i>	–
Electrical durability	500,000 operations at 220V AC 6A 1 million operations at 220V AC 3A	–
Operating frequency	1800 operations/hour (On-load factor: 40%)	–
Dielectric strength	2500V AC, 1 minute *2	
Insulation resistance	100MΩ or more (500V DC megger)	
Pollution degree	3	
Vibration	Malfunction durability: 10 to 55Hz, double amplitude 0.1mm Mechanical durability: 16.7Hz, double amplitude 3mm	
Shock	Malfunction durability: 100m/s ² Mechanical durability: 500m/s ²	Mechanical durability: 500m/s ²
Ambient temperature (No condensation or no icing)	-20 to +70°C (Illuminated type: -20 to +50°C)	-20 to +50°C
Storage temperature	-40 to +80°C	
Humidity	45 to 85% RH (within -5 to +40°C)	
Degree of protection	IP65*3	

Notes: *1 Illuminated type without transformer: 250V AC/DC

*2 Illuminated type without transformer: 1500V AC, 1 minute

*3 Square type : IP40

● **Mechanical durability**

Description		Operations
Pushbutton switch	Momentary action	5 million
Illuminated pushbutton switch	Alternate action	1 million
	With selector ring	200,000
	Push-lock, turn-reset	100,000
	Mechanically interlocked pushbutton switch	Latched/Latched, Latched/Unlatched
Selector switch	Maintained, spring return, spring/manual return Control type	1 million 200,000
Illuminated selector switch	Maintained, spring return, spring/manual return	1 million

Note: Key insertion/removal durability for selector switch key types

- Key type 10,000

Pushbuttons/Selectors/Pilot Lights

AH25

Ratings and Specifications

■ Contact ratings

• UL/CSA standards

Voltage [V]	Application		Continuous current [A]	AC(COS ϕ =0.35 or less)	
	UL	CSA		Make [A]	Break [A]
110-120	●		10	60	6.0
120		●			
220-240	●			30	3.0
240		●			
440-480	●			15	1.5
480		●			
550-600	●			12	1.2
600		●			

Voltage [V]	Application		DC
	UL	CSA	Make and break currents [A]
115-125	●		1.1
115		●	
230-250	●		0.55

Note: AH25-J3, -J5, -P3, -P1, -S1, -S3, -S4, -S5 types cannot be used in DC circuit.

• JIS standards

Description	Rated thermal current (A)	AC		DC		
		Voltage (V)	Operational current (A) AC15(Ind.)	Voltage (V)	Operational current (A)	
					DC13(Ind.)	DC12(Res.)
Pushbutton switch	10	24	6	24	6	6
Illuminated pushbutton switch		110	6	110	1.3	2.5
Selector switch (2-position)		220	6	220	0.45	1
		440	2.5	—	—	—
		550	2	—	—	—
Selector switch (3-position)	10	24	3	24	3	3
Pushbutton switch with selector ring		110	3	110	0.65	1.3
Pushbutton switch with selector lever		220	3	220	0.23	0.5
		440	1.3	—	—	—
		550	1	—	—	—

■ Contact reliability

The AH25 command switches can be used in low level circuit of 5V AC/DC, 5mA. The operating environment and the types of load, however, may affect the operating range.

■ **Lamp ratings**

● **Illuminated pushbuttons, illuminated selectors, pilot lights**

Transformer	Lamp voltage	LED (lamp base: BA9S/13)			Incandescent (lamp base: BA9S/13)		
		Type	Rated voltage	Consumption	Type	Rated voltage	Consumption
Without transformer	5.5V AC/DC	— —	—	—	AHX135	6.3V AC/DC	0.9W
	6V AC	APX508-6□ APX510-6□	6V AC	Green, red, orange, amber: 7mA AC Yellow: 26mA AC	—	—	—
	6V DC	APX508-D6□ APX510-D6□	6V DC	Green, red, orange, amber: 11mA DC Yellow: 33mA DC	—	—	—
	12V AC/DC	APX508-12□ APX510-12□	12V AC/DC	14mA AC, 11mA DC	—	—	—
	15V AC/DC	APX508-15□ APX510-15□	15V AC/DC	13mA AC, 11mA DC	AHX279	20V AC/DC	0.8W
	20V AC/DC	— —	—	—	AHX144	24V AC/DC	0.9W
With transformer	24V AC/DC	APX508-24□ APX510-24□	24V AC/DC	12mA AC, 11mA DC	AHX129	30V AC/DC	0.8W
	110V AC	APX508-6□ APX510-6□	6V AC	1.5VA	AHX135	6.3V AC/DC	2VA
	127V AC						2VA
	220V AC						2VA
	254V AC	APX508-6□ APX510-6□	6V AC	2.5VA	AHX135	6.3V AC/DC	2.5VA
	380V AC						2.5VA
With resistor unit	440V AC						2.5VA
	480V AC						2.5VA
	550V AC						2.5VA
	110V DC	APX508-24□ APX510-24□	24V AC/DC	1.2W	—	—	—

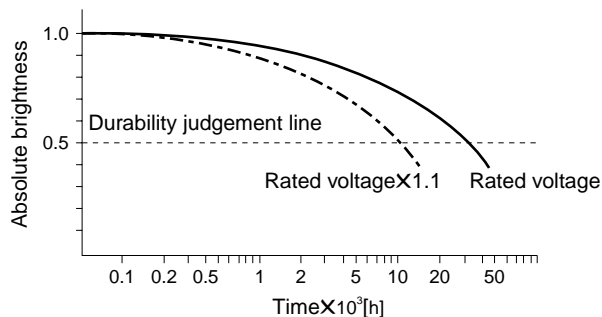
Note: Replace the □ mark by the lamp luminous color code.

■ **Lamp durability**

Lamp	Durability	Judgement criterion
LED	Approx. 30000h	When brightness is less than 50% of initial value
Incandescent	Approx. 5000h (AC)	When the bulb burns out

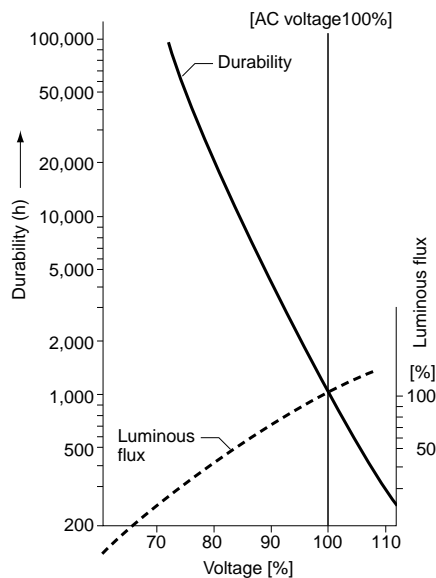
Note: The operating voltage for incandescent lamps is set at 80 to 90% of the lamp's rated voltage.

■ **Estimated durability for LED lamps**



Notes: • Durability at Ta=25°C
 • Durability is affected by temperature, humidity, and voltage fluctuation.

■ **Incandescent lamp voltage characteristics**


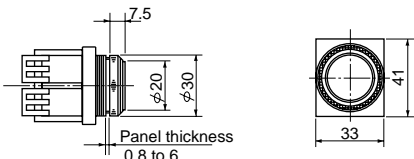

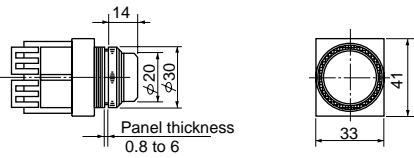

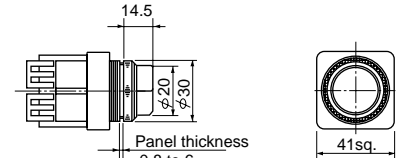

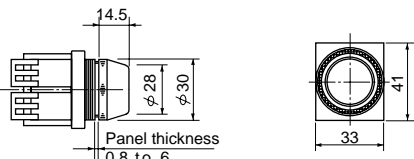

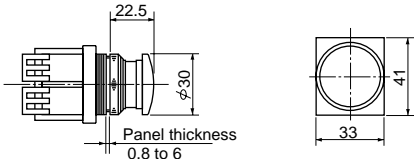


■ **Combination of lens color and LED luminous color**


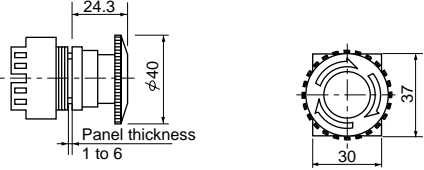

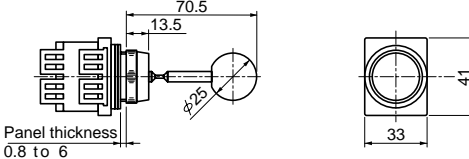
Lens color (lens or color plate)		LED lamp (high-brightness)		
Color	Code	Luminous color	Type	Type *1
Green	G	Green	APX510-■G	APX508-■G
Red	R	Red	APX510-■R	APX508-■R
White	W	Orange	APX510-■O	APX510-■O
Yellow	Y	Yellow	APX510-■Y	APX508-■Y
Orange	A	Amber	APX510-■A	APX508-■A

Notes: *1 For pilot lights
 • Replace the M mark by the lamp voltage code


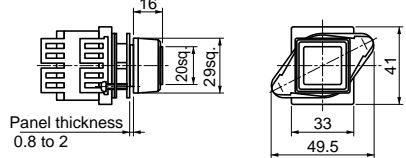
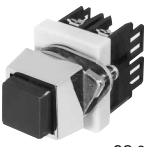
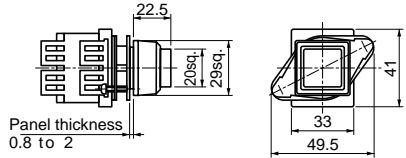
Pushbuttons AH25

Operator	Contact	Momentary action Type	Alternate action Type	Operator dimensions,mm
Flush round head  AF87-312	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-F □ 10 AH25-F □ 01 AH25-F □ 11 AH25-F □ 20 AH25-F □ 02 AH25-F □ 22	AH25-F5 □ 10 AH25-F5 □ 01 AH25-F5 □ 11 AH25-F5 □ 20 AH25-F5 □ 02 AH25-F5 □ 22	
Extended round head  AF87-314	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-E □ 10 AH25-E □ 01 AH25-E □ 11 AH25-E □ 20 AH25-E □ 02 AH25-E □ 22	AH25-E5 □ 10 AH25-E5 □ 01 AH25-E5 □ 11 AH25-E5 □ 20 AH25-E5 □ 02 AH25-E5 □ 22	
Extended with half guard  SG-171	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-G □ 10 AH25-G □ 01 AH25-G □ 11 AH25-G □ 20 AH25-G □ 02 AH25-G □ 22	AH25-G5 □ 10 AH25-G5 □ 01 AH25-G5 □ 11 AH25-G5 □ 20 AH25-G5 □ 02 AH25-G5 □ 22	
Extended with full guard  SG-179	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-G1 □ 10 AH25-G1 □ 01 AH25-G1 □ 11 AH25-G1 □ 20 AH25-G1 □ 02 AH25-G1 □ 22	AH25-G6 □ 10 AH25-G6 □ 01 AH25-G6 □ 11 AH25-G6 □ 20 AH25-G6 □ 02 AH25-G6 □ 22	
Mushroom head  SG-185	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-M □ 10 AH25-M □ 01 AH25-M □ 11 AH25-M □ 20 AH25-M □ 02 AH25-M □ 22	AH25-M5 □ 10 AH25-M5 □ 01 AH25-M5 □ 11 AH25-M5 □ 20 AH25-M5 □ 02 AH25-M5 □ 22	

Notes: • □ See page 04CD/3/11
 • Contact block dimensions: See page 04CD/3/12

Operator	Contact	Momentary action Type	Operator dimensions,mm
Push-lock, turn-reset  <small>AF89-414</small>	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-V □10 AH25-V □01 AH25-V □11 AH25-V □20 AH25-V □02 AH25-V □22	
Wobble stick  <small>SG-202</small>	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-UB10 AH25-UB01 AH25-UB11 AH25-UB20 AH25-UB02 AH25-UB22	

Notes: • AH25-U type: ball color Black only.
 *1 Alternate action type.

Operator	Contact	Momentary action Type	Alternate action Type	Operator dimensions,mm
Flush square head  <small>SG-208</small>	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-SF □10 AH25-SF □01 AH25-SF □11 AH25-SF □20 AH25-SF □02 AH25-SF □22	AH25-SF5 □10 AH25-SF5 □01 AH25-SF5 □11 AH25-SF5 □20 AH25-SF5 □02 AH25-SF5 □22	
Extended square head  <small>SG-206</small>	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-SE □10 AH25-SE □01 AH25-SE □11 AH25-SE □20 AH25-SE □02 AH25-SE □22	AH25-SE5 □10 AH25-SE5 □01 AH25-SE5 □11 AH25-SE5 □20 AH25-SE5 □02 AH25-SE5 □22	

• Button color

Replace the □ mark by the following button color code

Button color	Green	Red	Black	Yellow	White
Code	G	R	B	Y	W

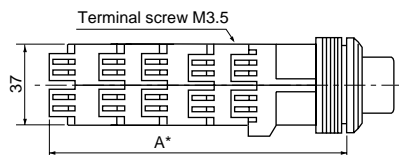
Button color	Dark green	Sky-blue	Orange
Code	D	S	O

Note: AH25-V type: Red, yellow, black only.

- Up to 8-contact block of the contact arrangement can be made.
 For alternate action type, up to 4-contact block of the contact arrangement can be made. (Except for AH25-V type)
- AH25-V type: Up to 4-contacts can be made.
- Contact block dimensions: See page 04CD/3/12

Pushbuttons AH25

• Contact block dimensions, mm






- Up to 8-contact block of the contact arrangement can be made. For alternate action type, up to 4-contact block of the contact arrangement can be made.

AH25

Contact block		1NO, 1NC,	3NO, 3NC,	3NO+3NC	4NO+4NC
		2NO, 2NC, 1NO+1NC	4NO, 4NC, 2NO+2NC		
A	Operator				
	F,E,M,G,G1	45	67	89	111
*	F5,E5,M5,G5,G6	67	89	–	–
	V	48.5	70.5	–	–
	U	43.5	65.5	87.5	109.5
	SF,SE	46.5	68.5	90.5	112.5
	SF5,SE5	68.5	90.5	–	–

* When attaching the terminal cover, the dimension of externals increase 1.5mm.

Operator	Type	Contact operation					
		Contact block		Left 		Right 	
		Mounting position	Type	Free	Depressed	Free	Depressed
Pushbutton with selector ring 2-position 2NO+2NC  SI-55	AH25-S1 □ 22	(1)	NC	—	—	●	—
		(2)	NC	—	—	●	—
		(3)	NO	—	●	—	●
		(4)	NO	—	●	—	●
	AH25-S2 □ 22	(1)	NC	●	—	██████████	
		(2)	NC	██████████		●	—
		(3)	NO	—	●	—	—
		(4)	NO	—	—	—	●
	AH25-S3 □ 22	(1)	NC	—	—	██████████	
		(2)	NC	██████████		—	—
		(3)	NO	—	●	—	—
		(4)	NO	—	—	—	●
	AH25-S4 □ 22	(1)	NC	—	—	██████████	
		(2)	NC	—	—	●	—
		(3)	NO	—	●	—	—
		(4)	NO	—	●	—	●
	AH25-S5 □ 22	(1)	NC	●	—	—	—
		(2)	NC	●	—	—	—
		(3)	NO	—	●	—	●
		(4)	NO	—	●	—	●
	AH25-S6 □ 22	(1)	NC	●	—	—	Locked
		(2)	NC	●	—	—	
		(3)	NO	—	●	●	
		(4)	NO	—	●	●	

Note: (1) to (4) contact block mounting position

● Contact closed
— Contact open

• Button color

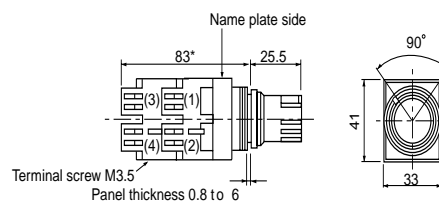
Replace the □ mark by the following button color code

Button color	Green	Red	Black	Yellow	White
Code	G	R	B	Y	W

Button color	Dark green	Sky-blue	Orange
Code	D	S	O

- The contact arrangement is 2NO+2NC only.
- The terminals are on the upper and lower positions.
- To turn selector ring of the S3 type right/left, the contacts in the upper and lower contact blocks overlap.



• Dimensions, mm



* When attaching the terminal cover, the dimension of externals increase 1.5mm.

Pushbuttons AH25

■ Mechanically interlocked pushbutton switches

Exterior view	Operator	Contact block	Cat. No.
 AF89-610	Flush/Flush	1NO/1NO 1NO+1NC/1NO+1NC	AH25-F5 □10/F5 □10 AH25-F5 □11/F5 □11
	Flush/Extended	1NO/1NO 1NO+1NC/1NO+1NC	AH25-F5 □10/E5 □10 AH25-F5 □11/E5 □11
	Flush/Mushroom	1NO/1NO 1NO+1NC/1NO+1NC	AH25-F5 □10/M5 □10 AH25-F5 □11/M5 □11
	Latched/Unlatched	Flush/Flush	1NO/1NO 1NO+1NC/1NO+1NC
 AF89-615	Flush/Extended	1NO/1NO 1NO+1NC/1NO+1NC	AH25-F5 □10/E □10 AH25-F5 □11/E □11
	Flush/Mushroom	1NO/1NO 1NO+1NC/1NO+1NC	AH25-F5 □10/M □10 AH25-F5 □11/M □11

• Button color

Replace the □ mark by the following button color code

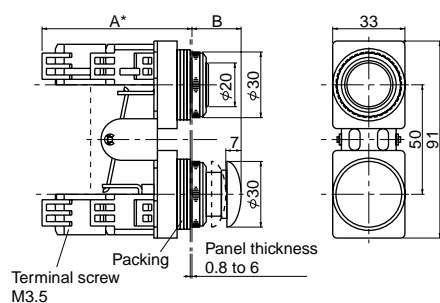
Button color	Green	Red	Black	Yellow	White
Code	G	R	B	Y	W

Button color	Dark green	Sky-blue	Orange
Code	D	S	O

• Up to 2-contacts can be made.

• Dimensions, mm


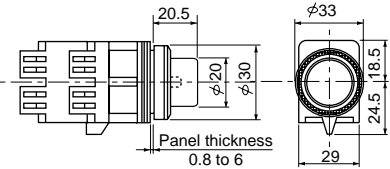

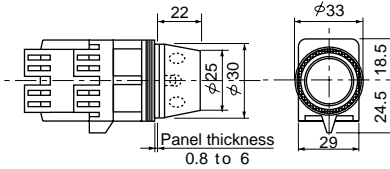


AH25-□/□



Contact arrangement	1NO, 1NC	1NO+1NC 2NO, 2NC
A*	46.5	68.5

* When attaching the terminal cover, the deimension of externals increase 1.5mm.

Button	F, F5	E, E5	M, M5
B	7.5	14	22.5

Operator	Contact	Momentary action Type	Alternate action Type	Operator dimensions, mm
Extended round head  SG-150	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-L □ 10 ■ AH25-L □ 01 ■ AH25-L □ 11 ■ AH25-L □ 20 ■ AH25-L □ 02 ■ AH25-L □ 22 ■	AH25-L5 □ 10 AH25-L5 □ 01 AH25-L5 □ 11 AH25-L5 □ 20 AH25-L5 □ 02 AH25-L5 □ 22	
Extended with full guard (With openings)  10-267	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-L2 □ 10 ■ AH25-L2 □ 01 ■ AH25-L2 □ 11 ■ AH25-L2 □ 20 ■ AH25-L2 □ 02 ■ AH25-L2 □ 22 ■	AH25-L6 □ 10 AH25-L6 □ 01 AH25-L6 □ 11 AH25-L6 □ 20 AH25-L6 □ 02 AH25-L6 □ 22	
Extended with full guard  AF89-604	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-L3 □ 10 ■ AH25-L3 □ 01 ■ AH25-L3 □ 11 ■ AH25-L3 □ 20 ■ AH25-L3 □ 02 ■ AH25-L3 □ 22 ■	AH25-L7 □ 10 AH25-L7 □ 01 AH25-L7 □ 11 AH25-L7 □ 20 AH25-L7 □ 02 AH25-L7 □ 22	
Extended with transparent full guard  -605	1NO 1NC 1NO+1NC 2NO 2NC 2NO+2NC	AH25-L4 □ 10 ■ AH25-L4 □ 01 ■ AH25-L4 □ 11 ■ AH25-L4 □ 20 ■ AH25-L4 □ 02 ■ AH25-L4 □ 22 ■	- - - - - -	

• Lens color

Replace the □ mark by the following lens color code

Button color	Green	Red	Yellow	White	Sky-blue	Orange
Code	G	R	Y	W	S	O

For illuminated pushbutton with LED lamp, sky-blue is not available.
 Lens are transparent colored plastic.

• Contact block dimensions: See page 04/19.

• Up to 8-contact block of contact arrangement can be made.
 For switches with transformers or alternate action switches, up to 4-contact block can be made.


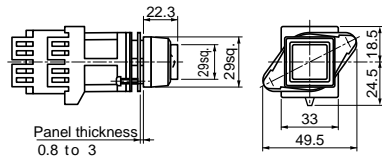

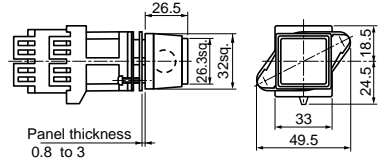
• Voltage

Replace the ■ mark by the lamp voltage code


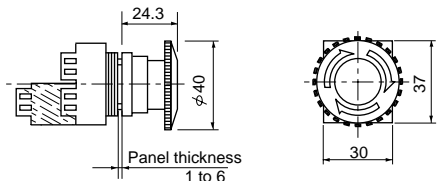
Transformer		Code	
		LED	Incandescent
Without transformer	6V DC	AD3	—
	6V AC	A3	—
	5.5V AC/DC	—	Blank
	12V AC/DC	B3	—
	15V AC/DC	C3	C
	20V AC/DC	—	D
With transformer	24V AC/DC	E3	E
	100-110V AC	H3	H
	115-127V AC	L3	L
	200-220V AC	M3	M
	230-254V AC	Q3	Q
	350-380V AC	S3	S
400-440V AC	T3	T	
480V AC	V3	V	
500-550V AC	W3	W	

Illuminated Pushbuttons

AH25

Operator	Contact	Momentary action Type	Alternate action Type	Operator dimensions, mm
Extended square head  SG-144	1NO	AH25-SL□10■	AH25-SL5□10■	 Panel thickness 0.8 to 3
	1NC	AH25-SL□01■	AH25-SL5□01■	
	1NO+1NC	AH25-SL□11■	AH25-SL5□11■	
	2NO	AH25-SL□20■	AH25-SL5□20■	
	2NC	AH25-SL□02■	AH25-SL5□02■	
	2NO+2NC	AH25-SL□22■	AH25-SL5□22■	
Flush square head  SG-139	1NO	AH25-SL1□10■	AH25-SL6□10■	 Panel thickness 0.8 to 3
	1NC	AH25-SL1□01■	AH25-SL6□01■	
	1NO+1NC	AH25-SL1□11■	AH25-SL6□11■	
	2NO	AH25-SL1□20■	AH25-SL6□20■	
	2NC	AH25-SL1□02■	AH25-SL6□02■	
	2NO+2NC	AH25-SL1□22■	AH25-SL6□22■	

Notes: For SL,SL1,SL5 and SL6,switches with incandescent lamp only.

Operator	Contact	Type	Operator dimensions,mm
Push-lock, turn-reset  AF89-413	1NO	AH25-VL□10■	 Panel thickness 1 to 6
	1NC	AH25-VL□01■	
	1NO+1NC	AH25-VL□11■	
	2NO	AH25-VL□20■	
	2NC	AH25-VL□02■	
	2NO+2NC	AH25-VL□22■	

• Lens color

Replace the □ mark by the following lens color code

Button color	Green	Red	Yellow	White	Sky-blue	Orange
Code	G	R	Y	W	S	O

AH25-VL type : Red, yellow only

For illuminated pushbutton with LED lamp,sky-blue is not available.

Lens are transparent colored plastic.

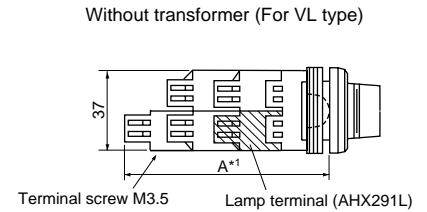
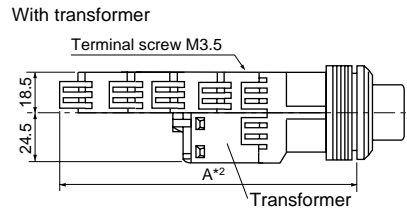
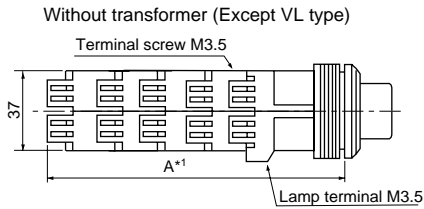
- Contact block dimensions: See page 04CD/3/19.
- Up to 8-contact block of contact arrangement can be made.
For switches with transformers or alternate action switches,up to 4-contact block can be made. (Except AH25-VL type)
- AH25-VL type without transformer: Up to 4-contacts
AH25-VL type with transformer: Up to 2-contacts

• Voltage

Replace the ■ mark by the lamp voltage code

Transformer		Code	
		LED	Incandescent
Without transformer	6V DC	AD3	—
	6V AC	A3	—
	5.5V AC/DC	—	Blank
	12V AC/DC	B3	—
	15V AC/DC	C3	C
	20V AC/DC	—	D
	24V AC/DC	E3	E
With transformer	100-110V AC	H3	H
	115-127V AC	L3	L
	200-220V AC	M3	M
	230-254V AC	Q3	Q
	350-380V AC	S3	S
	400-440V AC	T3	T
	480V AC	V3	V
	500-550V AC	W3	W

• Contact block dimensions, mm



Without transformer

Contact block \ Operator		1NO, 1NC		2NO, 2NC, 1NO+1NC		3NO, 3NC		4NO, 4NC, 2NO+2NC		3NO+3NC		4NO+4NC	
A	L	64.5		86.5		108.5		130.5					
	*1 L5	86.5		108.5		-		-					
	L2,L3,L4	63.5		85.5		107.5		129.5					
	L6,L7	85.5		107.5		-		-					
	VL	48.5	70.5	70.5	92.5	-		-					
	SL,SL1	66		88		110		132					
	SL5,SL6	88		110		-		-					

With transformer

Contact block \ Operator		1NO, 1NC		2NO, 2NC 1NO+1NC		3NO, 3NC		4NO, 4NC 2NO+2NC	
A	L	81	86.5	108.5	130.5				
	*2 L5	103	108.5	130.5	152.5				
	L2,L3,L4	80	85.5	107.5	129.5				
	L6,L7	102	107.5	129.5	151.5				
	VL	62	70.5	-	-				
	SL,SL1	83	88	110	132				
	SL5,SL6	105	110	132	154				

Notes: • Up to 8-contact block of contact arrangement can be made.

For switches with transformers or alternate action switches, up to 4-contact block of contact arrangement can be made. (Except AH25-VL)



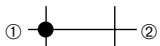
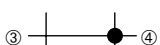
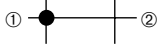

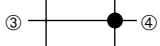
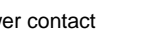
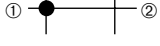
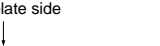
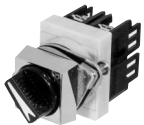



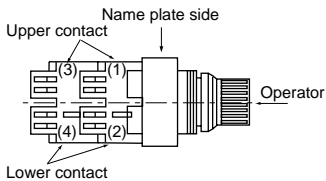

- Type AH25-VL without transformer: 4 contact Max.
with transformer: 2 contact Max.

*1 When attaching the terminal cover, the dimension of externals increase 1.5mm.

*2 When attaching the terminal cover, the dimension of externals increase 1.5mm. (Except for 1NO and 1NC)

Selector Switches AH25

• 2-position

Operator	Operation	Contact	Type	Contact operation (Example)		
				Contact arrangement	Operator position	
					Left	Right
 SG-188	Maintained	1NO 1NC 1NO+1NC 2NO 2NO+2NC	AH25-P2 □ 10 AH25-P2 □ 01 AH25-P2 □ 11 AH25-P2 □ 20 AH25-P2 □ 22	1NO (1)	Upper contact 	
	each 90°			1NC (1)	Upper contact 	
	Spring return	1NO 1NC 1NO+1NC 2NO 2NO+2NC	AH25-P0 □ 10 AH25-P0 □ 01 AH25-P0 □ 11 AH25-P0 □ 20 AH25-P0 □ 22	1NO+1NC (1)	Upper contact 	
	90°				Lower contact 	
 SP-1007	Maintained	1NO 1NC 1NO+1NC 2NO 2NO+2NC	AH25-PW2 □ 10 AH25-PW2 □ 01 AH25-PW2 □ 11 AH25-PW2 □ 20 AH25-PW2 □ 22	(2)	Upper contact 	
	each 90°			(1)	Lower contact 	
	Spring return	1NO 1NC 1NO+1NC 2NO 2NO+2NC	AH25-PW0 □ 10 AH25-PW0 □ 01 AH25-PW0 □ 11 AH25-PW0 □ 20 AH25-PW0 □ 22	(3)	Upper contact 	
	90°				Lower contact 	
 SG-196	Maintained	1NO 1NC 1NO+1NC 2NO 2NO+2NC	AH25-SP2 □ 10 AH25-SP2 □ 01 AH25-SP2 □ 11 AH25-SP2 □ 20 AH25-SP2 □ 22	(2)	Upper contact 	
	each 90°			(4)	Lower contact 	
 SG-233	Maintained	1NO 1NC 1NO+1NC 2NO 2NO+2NC	AH25-J2 ■ 10() AH25-J2 ■ 01() AH25-J2 ■ 11() AH25-J2 ■ 20() AH25-J2 ■ 22()			
	each 90°					
 SG-226	Maintained	1NO 1NC 1NO+1NC 2NO 2NO+2NC	AH25-SJ2 ■ 10() AH25-SJ2 ■ 01() AH25-SJ2 ■ 11() AH25-SJ2 ■ 20() AH25-SJ2 ■ 22()			
	each 90°					

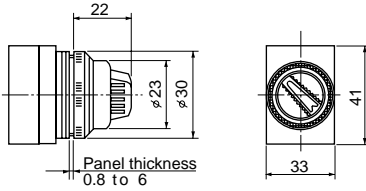
Notes: • (1) to (4): Contact block mounting position

• ①-②, ③-④: Contact block terminal No.

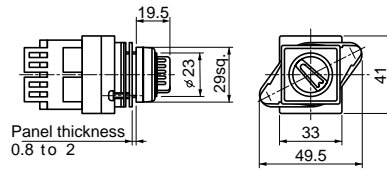
• □, ■, () and contact arrangements: See page 04CD/3/19

• **Operator dimensions, mm**

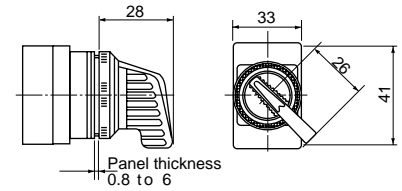
AH25-P



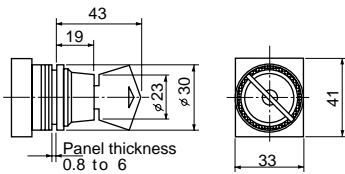
AH25-SP



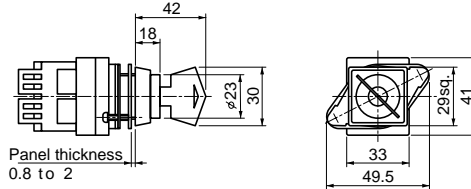
AH25-PW



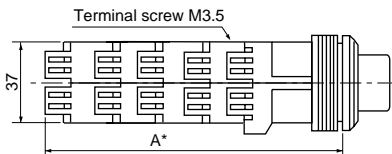
AH25-J



AH25-SJ



• **Contact block dimensions, mm**



		Contact block			
		1NO, 1NC, 2NO, 2NC, 1NO+1NC	3NO, 3NC, 4NO, 4NC, 2NO+2NC	3NO+3NC	4NO+4NC
A *	AH25 P0, P2, PW0, PW2	53.5	75.5	97.5	119.5
	SP2	55.5	77.5	99.5	121.5
	SJ2	52.5	74.5	96.5	118.5
	J0, J2	51.5	73.5	95.5	117.5

Notes: * When attaching the terminal cover, the dimension of externals increase 1.5mm.

• Up to 8-contact block of the contact arrangement can be made.

• **Knob color**

Replace the □ mark by the following knob color code

Knob color	Green	Red	Black
Code	G	R	B

The standard knob color is black.

• **Key code No.**

Replace the ■ with the key code No. A, B, C, D, E or F. Standard key code is A.

• **Key removable positions**

Replace the () mark by the following code No.

Code	A	D	B
Removable position			
J2	●	●	●
J0	●	—	—
SJ2	●	●	●

● : Available —: Not available

Selector Switches AH25

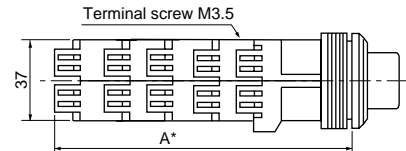
• 3-position

Operator	Operation	Contact	AH25 Type
 SG-193	Maintained each 45°	1NO+1NC 2NO+2NC	AH25-P3 □ 11 AH25-P3 □ 22
	Spring/manual return ⌚ each 45°	1NO+1NC 2NO+2NC	AH25-P5 □ 11 AH25-P5 □ 22
	Spring/manual return ⌚ each 45°	1NO+1NC 2NO+2NC	AH25-P6 □ 11 AH25-P6 □ 22
	Spring return ⌚ each 60°	2NO+2NC	AH25-P1 □ 22
 AF89-602	Maintained each 45°	1NO+1NC 2NO+2NC	AH25-PW3 □ 11 AH25-PW3 □ 22
	Spring/manual return ⌚ each 45°	1NO+1NC 2NO+2NC	AH25-PW5 □ 11 AH25-PW5 □ 22
	Spring/manual return ⌚ each 45°	1NO+1NC 2NO+2NC	AH25-PW6 □ 11 AH25-PW6 □ 22
	Spring return ⌚ each 60°	2NO+2NC	AH25-PW1 □ 22
 AF88-599	Maintained each 45°	1NO+1NC 2NO+2NC	AH25-SP3 □ 11 AH25-SP3 □ 22
 SG-364	Maintained each 45°	1NO+1NC 2NO+2NC	AH25-J3 ■ 11() AH25-J3 ■ 22()
	Spring/manual return ⌚ each 45°	1NO+1NC 2NO+2NC	AH25-J5 ■ 11() AH25-J5 ■ 22()
	Spring/manual return ⌚ each 45°	1NO+1NC 2NO+2NC	AH25-J6 ■ 11() AH25-J6 ■ 22()
 AF89-609	Maintained each 45°	1NO+1NC 2NC+2NC	AH25-SJ3 ■ 11() AH25-SJ3 ■ 22()

Notes: • □, ■, () and contact arrangements: See page 04CD/3/21
• Operator dimensions: See page 04CD/3/19

• Contact block dimensions, mm

		Operator	Contact block			
			1NO, 1NC 2NO, 2NC 1NO+1NC	3NO, 3NC 4NO, 4NC 2NO+2NC	3NO+3NC	4NO+4NC
A	AH25	P3, P5, P6, PW3, PW5, PW6	53.5	75.5	97.5	119.5
		SP3	55.5	77.5	99.5	121.5
		SJ3	52.5	74.5	96.5	118.5
		J3, J5, J6	51.5	73.5	95.5	117.5
		P1, PW1	-	75.5	-	-
		J1	-	73.5	-	-



Notes : * When attaching the terminal cover, the dimension of externals increase 1.5mm.
 • Up to 8-contact block of the contact arrangement can be made.
 For spring return switches, up to 4-contact block can be made.

• Key removable positions

Replace the () mark by the following code No.

Code	A	B	C	D	E	F	G
Removable position							
J3, SJ3	●	●	●	●	●	●	●
J5	-	-	-	●	●	●	-
J6	●	-	-	-	●	-	●

●: Available -: Not available

• Contact operation (Example)

3-position

Type	Contact arrangement	Operator position					
		L	C	R	L	C	R
P3, PW3, SP3, J3, SJ3, P5, PW5, J5	1NO+1NC (1) (2)						
P6, PW6, J6	1NO+1NC (1) (2)						
P1, PW1	2NO+2NC (1) (2) (3) (4)						

● Contact closed

Note: ①-②,③-④ : Contact block terminal No.

• Up to 8-contact block of the contact arrangement can be made.
 For P1, PW1 types, up to 4-contact block can be made.

• Key code No.

Replace the ■ with the key code No. A, B, C, D, E or F.
 Standard key code is A.

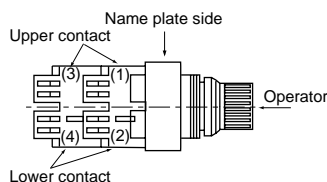
• Knob color

Replace the □ mark by the following knob color code

Knob color	Green	Red	Black
Code	G	R	B

The standard knob color is black.


• Position of contact block



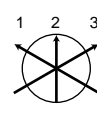
Selector Switches AH25

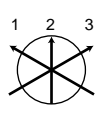
■ Selector switches (control type)

3-position

Operator	Operation	Knob color or key removable position	Contact arrangement (2NO+2NC only)	Type
 AF89-596	Maintained each 60°	Color code: B: Black (Standard) Color other than above are available (G: Green) (R: Red)	Replace the ■ mark by type arrangement code (shown on under table).	AH25-PCB■
				AH25-PCR■
				AH25-PCG■

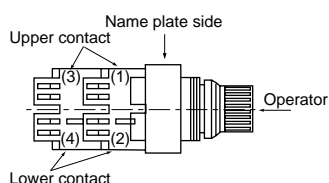
Contact operation (2NO+2NC)

Code	Operation	Contact operation	
		Upper contact	Lower contact
012	 each 60°		
032			
052			
072			
092			
112			
132			
152			
172			
192			
212			

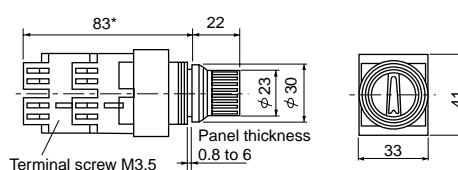
Code	Operation	Contact operation	
		Upper contact	Lower contact
022	 each 60°		
042			
062			
082			
102			
122			
142			
162			
182			
202			

● Contact closed

Notes : • (1) to (4) : Contact block mounting position
 • ①-②, ③-④ : Contact block terminal No.




• Dimensions, mm

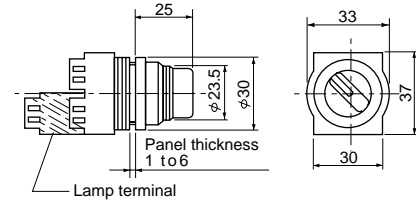


* When attaching the terminal cover, the dimension of externals increase 1.5mm.


• 2-position

Operator	Operation	Contact	Type
 AF89-622	Maintained each 90°	1NO+1NC	AH25-PL2 □ 11 ■
		2NO+2NC	AH25-PL2 □ 22 ■
	Spring return 90°	1NO+1NC	AH25-PL0 □ 11 ■
		2NO+2NC	AH25-PL0 □ 22 ■

• Operator dimensions, mm



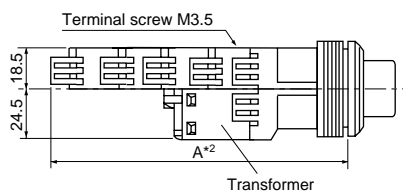
• 3-position

Operator	Operation	Contact	Type
 AF89-415	Maintained each 45°	1NO+1NC	AH25-PL3 □ 11 ■
		2NO+2NC	AH25-PL3 □ 22 ■
	Manual/ spring return each 45°	1NO+1NC	AH25-PL6 □ 11 ■
		2NO+2NC	AH25-PL6 □ 22 ■
	Manual/ spring return each 45°	1NO+1NC	AH25-PL7 □ 11 ■
		2NO+2NC	AH25-PL7 □ 22 ■

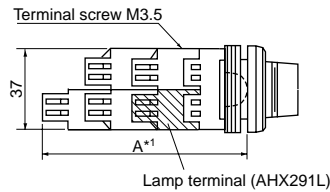
Notes: • □, ■ and contact arrangements: See page 04CD/3/24
 • 3-position, spring return type is not available.

• Contact block dimensions, mm

Switch: with transformer



Switch: without transformer



Operator		Contact block	1NO, 1NC	1NO+1NC 2NO, 2NC	3NO, 3NC	2NO+2NC 4NO, 4NC	3NO+3NC
			A	A*1	A*2	A*1	A*2
AH25	Without transformer		48.5	70.5	70.5	92.5	114.5
	With transformer	-PL	60.5	70.5	92.5	114.5	-

Notes: • *1 When attaching the terminal cover, the dimension of external increase 1.5mm.
 • *2 When attaching the terminal cover, the dimension of external increase 1.5mm. (Except for 1NO and 1NC)

Illuminated Selector Switches AH25

- Replace the □ mark by the following lamp voltage code

Transformer	Voltage	Code	
		LED	Incandescent
Without	5.5V AC/DC	–	Blank
	6V DC	AD3	–
	6V AC	A3	–
	12V AC/DC	B3	–
	15V AC/DC	C3	C
	20V AC/DC	–	D
	24V AC/DC	E3	E
With	100-110V AC	H3	H
	115-127V AC	L3	L
	200-220V AC	M3	M
	230-254V AC	Q3	Q
	350-380V AC	S3	S
	400-440V AC	T3	T
	480V AC	V3	V
	500-550V AC	W3	W

- Contact arrangement and operator position

2-position

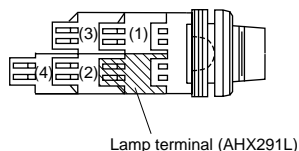
Transformer	Contact arrangement	Contact block		Operator position	
		Mounting position	Type	Left	Right
With/without	1NO	(1)	NO	–	●
With/without	1NC	(1)	NC	●	–
Without	1NO+1NC	(1)	NO	–	●
		(2)	NC	●	–
With	1NO+1NC	(1)	NC	●	–
		(2)	NO	–	●
With/without	2NO	(1)	NO	–	●
		(2)	NO	–	●
Without	2NO+2NC *1	(1)	NO	–	●
		(2)	NC	●	–
		(3)	NO	–	●
		(4)	NC	●	–
With	2NO+2NC *1	(1)	NC	●	–
		(2)	NC	●	–
		(3)	NO	–	●
		(4)	NO	–	●

Notes: *1: AH25-PL2

● : Contact closed, – : Contact open

- Position of contact block

Without transformer



- Replace the □ mark by the following knob color code

Color	Green	Red	White	Sky-blue	Yellow	Orange
Code	G	R	W	S	Y	O

For illuminated selector switch with LED lamp, sky-blue is not available.

- Up to 4-contact of contact arrangement can be made.
Available numbers of contacts are as follow.

No. of position	Operation	Without transformer	With transformer
2-position	Maintained	6-contact	4-contact
	Spring return	4-contact	4-contact
3-position	Maintained	6-contact	4-contact
	Spring/manual return	6-contact	4-contact

3-position

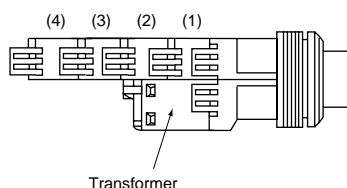
Transformer	Contact arrangement	Contact block		Operator position		
		Mounting position	Type	Left	Center	Right
Without	1NO+1NC *1	(1)	NO	●	–	–
		(2)	NC	–	–	●
	1NO+1NC *2	(1)	NO	–	–	●
		(2)	NC	●	–	–
	2NO+2NC *3	(1)	NO	●	–	–
		(2)	NC	–	–	●
		(3)	NO	●	–	–
		(4)	NC	–	–	●
With	1NO+1NC *1	(1)	NC	–	–	●
		(2)	NO	●	–	–
	1NO+1NC *2	(1)	NC	●	–	–
		(2)	NO	–	–	●
	2NO+2NC *3	(1)	NC	–	–	●
		(2)	NC	–	–	●
		(3)	NO	●	–	–
		(4)	NO	●	–	–

Notes: *1: AH25-PL3, PL6 *3: AH25-PL3

*2: AH25-PL7

● : Contact closed, – : Contact open

With transformer



● Incandescent lamp

Lens	Lamp voltage		Type
Dome  SF-1095	Without transformer	15V DC	AH25-ZM □
		24V DC	AH25-ZM □ E
	With transformer	110V AC	AH25-ZM □ H
		220V AC	AH25-ZM □ M
Faceted  SF-1094	Without transformer	15V DC	AH25-ZK □
		24V DC	AH25-ZK □ E
	With transformer	110V AC	AH25-ZK □ H
		220V AC	AH25-ZK □ M
Extended square  SF-1093	Without transformer	15V DC	AH25-ZS □
		24V DC	AH25-ZS □ E
	With transformer	110V AC	AH25-ZS □ H
		220V AC	AH25-ZS □ M
Flush square, with legend plate  SF-1092	Without transformer	15V DC	AH25-ZN □
		24V DC	AH25-ZN □ E
	With transformer	110V AC	AH25-ZN □ H
		220V AC	AH25-ZN □ M
Dome/short-body with transformer  SH-971		110V AC	AH25-ZM □ H8
		220V AC	AH25-ZM □ M8




● Lens color

Replace the □ mark by the following lens color code

Button color	Green	Red	Yellow	White	Sky-blue	Orange
Code	G	R	Y	W	S	O

Pilot light with LED lamp, sky-blue is not available.

● LED lamp

Lens	Lamp voltage		Type
Dome  SF-1095	Without transformer	12V DC	AH25-ZM □ B3
		24V DC	AH25-ZM □ E3
	With transformer	110V AC	AH25-ZM □ H3
		220V AC	AH25-ZM □ M3
Faceted  SF-1094	Without transformer	12V DC	AH25-ZK □ B3
		24V DC	AH25-ZK □ E3
	With transformer	110V AC	AH25-ZK □ H3
		220V AC	AH25-ZK □ M3
Dome/ short-body with transformer  SH-971		110V AC	AH25-ZM □ H9
		220V AC	AH25-ZM □ M9

● Voltage

Available lamp voltage are as follow.

Description	Voltage	Code	
		Standard type	
		LED	Incandescent
Without transformer	5.5V AC/DC	–	Blank
	6V AC	A3	–
	6V DC	AD3	–
	12V AC/DC	B3	–
	15V AC/DC	C3	C
	20V AC/DC	–	D
	24V AC/DC	E3	E
With transformer	100-110V AC	H3	H
	115-127V AC	L3	L
	200-220V AC	M3	M
	230-254V AC	Q3	Q
	350-380V AC	S3	S
	400-440V AC	T3	T
	480V AC	V3	V
	500-550V AC	W3	W
With resistor unit	110V DC	H7	–

Pilot Lights AH25

■ Dimensions, mm

Type	Without transformer	With transformer	
AH25-ZM			
AH25-ZM□8			
AH25-ZK			
AH25-ZS			
AH25-ZN			

Note: *1 Same as the resistor unit type.

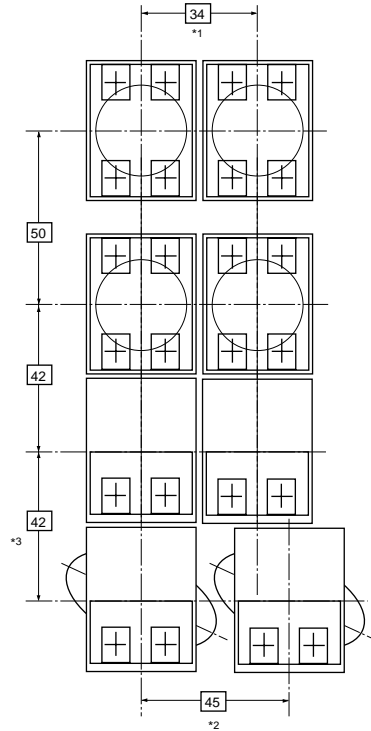
*2 When attaching the terminal cover, the dimension of externals increase 1.0mm.

Notes on use

■ **Mounting space, mm**

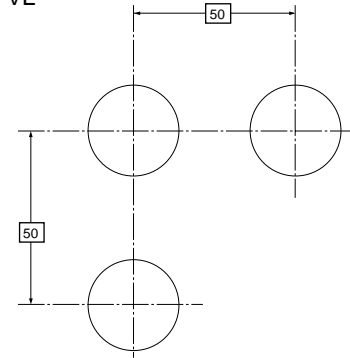
• **Switch**

F, F5, E, E5, G, G5, G1, G6, M, M5, U, S1~S6, SF, SF5, SE, SE5, L, L5, L3, L2, L4, SL, SL5, SL1, SL6, P, PW, SP, J, SJ, PC, PL



• **Push-lock type**

V, VL



*1 G, G5 type: 42

*2 This dimension applies SF, SF5, SE, SE5, SL, SL5, SL1, SL6, SP, SJ types.

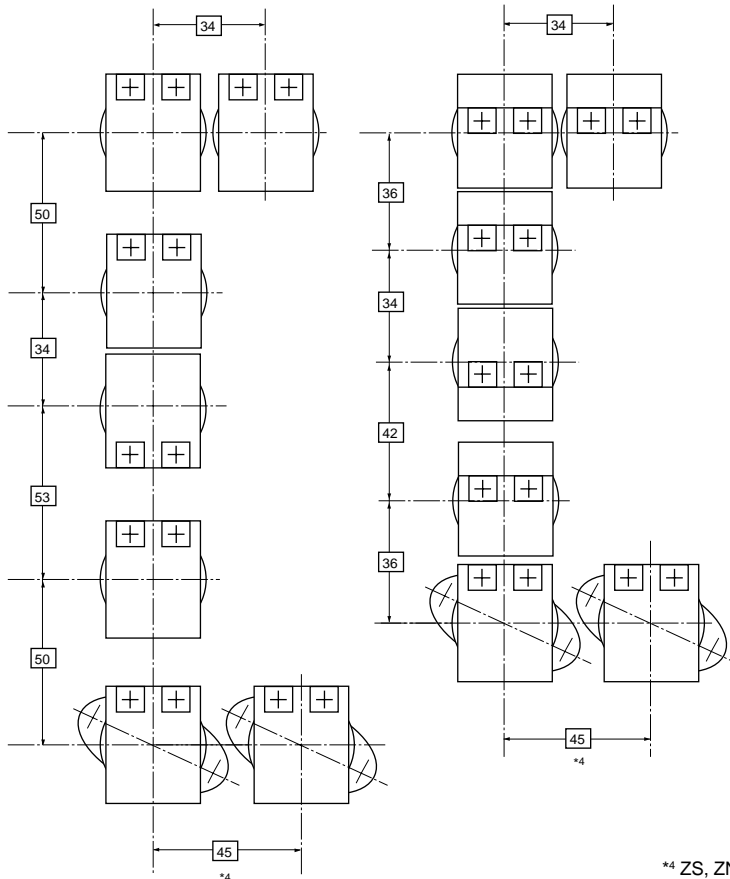
*3 L, SL type: 44 (not meet with the live section.)

• **Pilot light**

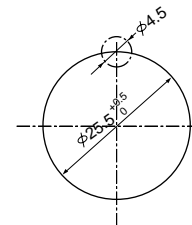
ZM, ZK, ZS, ZN

Without transformer

With transformer



■ **Panel cutout hole**

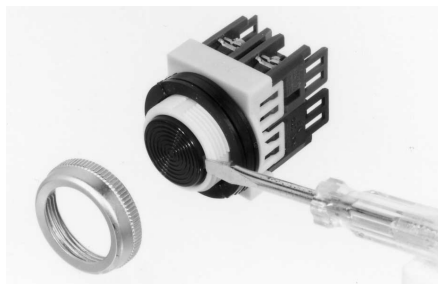


Note: If key-washer or legend plate are not used, 4.5mm dia. location holes shown and the same pilot light type ZS, ZN need not cutout.

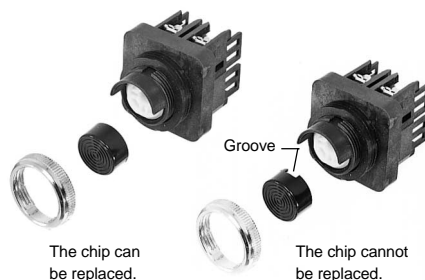
*4 ZS, ZN type: In case of horizontal mounting

■ Replace buttons

(1) To replace AH25 type F, E and G buttons with a different color, insert a flat-blade screwdriver into the groove on the button. To install them, align the button projection and the recess on the inner button and press them together firmly.



(2) To replace the color tip of AH25 type G (with half guard), do not make the trip groove face the guard.



■ Exchange of transformer

(1) A transformer can be easily snap-fitted to an AH25 pilot light. When a transformer is added to a pilot light without a transformer, attach a cover to the terminal of the pilot light to avoid wiring errors.



(2) The capacity of the transformer is set for the lamp. No other load can be applied.

■ Adjustment packing

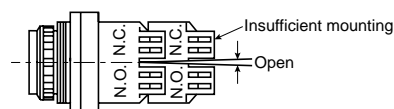
Four 1.6mm packings (molded as one) are included. Based on the thickness of the mounting panel, adjust the number as shown in the table. To mount to a panel thinner than 1.6mm, one 1.6mm packing is needed (Purchased separately).

(3) For AH25-M, V, VL, remove the button and mount the switch to the panel.

a) Tighten the button completely. The button stroke is adjusted only when it is completely tightened. If tightening is insufficient, stroke increases and destroys the contact.

b) Determine the panel thickness and number of adjustment packings with the table.

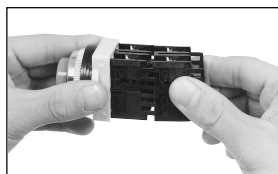
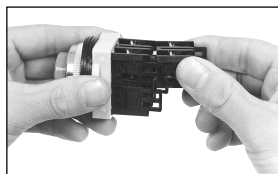
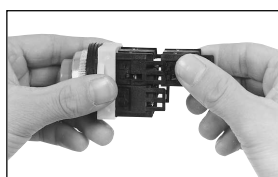
Do not adjust the button stroke with a liner under the button.




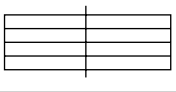
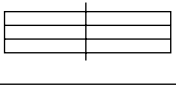
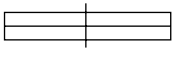
■ Replace the contact block

(1) AH25 contacts can be increased with snap-fitting contact block. To add a contact block, push the additional contact block straight in until it clicks. When adding more than two contact blocks, join the slots on both sides and make sure that the contact blocks facing each other are not open. After addition or replacement, operate the switches a few times to check that they work correctly.

(2) To remove a contact block, use a screwdriver to slightly open the mounting leg, and remove the contact block from the side of the opening leg. When two contact blocks are mounted release one a little, and then the other, and remove both at the same time. The same thing goes for transformers joined to contact blocks. Be careful not to force the mounting leg. Using a special tool (AHX321), the units can be removed more easily.



Mounting panel thickness and number of packings (reference)

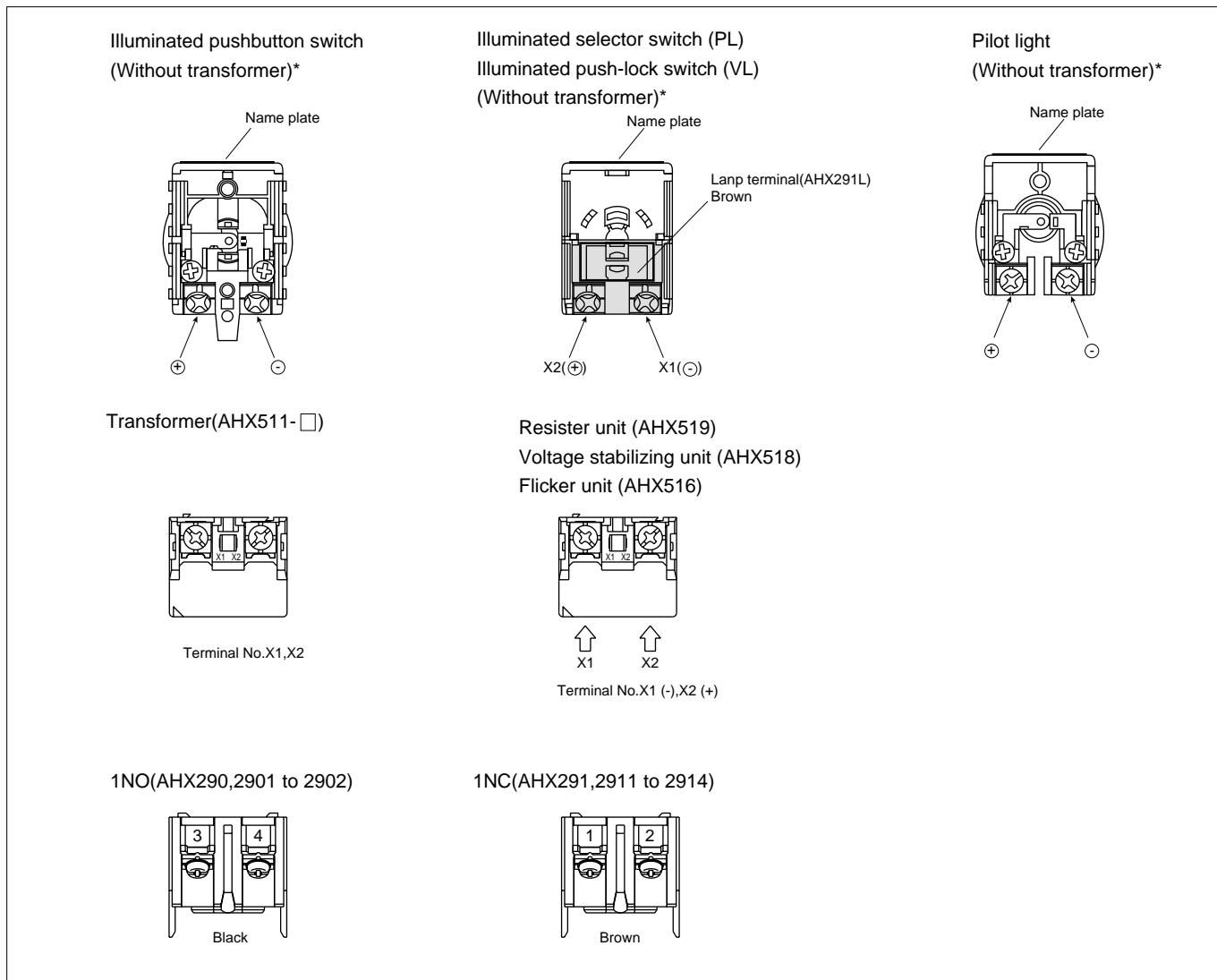
Mounting panel thickness (mm)	Number of packings
0.8 to 2.0	5 
2.0 to 3.2	4 
3.2 to 4.5	3 
4.5 to 6.0	2 

Notes:

- When using a key washer or legend plate, decrement one from the numbers in the above table.
- When more than four packings are needed, these are bought separately.

■ **Terminal layout**

Notes: * The positive and negative terminals are used for 6V DC applications.




Other items are the same as for the AR22 and DR22 series,
 see page 04/53 to 04/57.






Pushbuttons/Selectors/Pilot Lights

AH25







Accessories


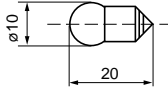

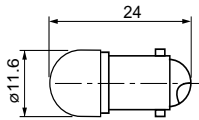
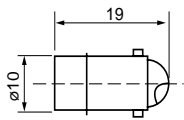
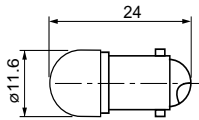
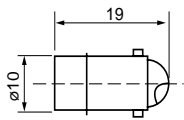
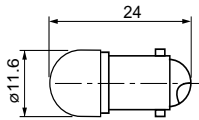
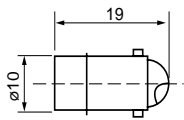

■ Accessories

Description	Type
 <p>T-1995</p>	AHX001
 <p>T-1993</p>	AHX003 Color: Silver (metal) Dimensions, mm 
 <p>SC993</p>  <p>SC992</p>	F type Red AHX046 Dimensions, mm Green AHX047 $\phi 34 \times 17.3$ Black AHX048 E type Red AHX025 Dimensions, mm Green AHX026 $\phi 34 \times 17.3$ Black AHX027 M type Red AHX105-R Dimensions, mm Green AHX105-G $\phi 45 \times 25$ Black AHX105-B Yellow AHX105-Y White AHX105-W
 <p>SC-993</p>	F type Red AHX112-R Dimensions, mm Green AHX112-G $\phi 34 \times 17.3$ Black AHX112-B E type Red AHX114-R Dimensions, mm Green AHX114-G $\phi 34 \times 17.3$ Black AHX114-B
 <p>Y-1559</p>	E type AHX106 Dimensions, mm $\phi 31 \times 18$ L type AHX155 Dimensions, mm $\phi 31 \times 25.5$ Note: The only color available is transparent.
 <p>AHX029 Y-1990</p>  <p>AHX790 AF95-22</p>	AHX029 For Incandescen lamp AHX790 For LED lamp

Description	Type																										
 <p>Y-1541</p>  <p>Y-1542</p>	Standard F, F5, S1-S6 type AHX061- □ E, E5, G, G5, G1, AHX062- □ G6 type Engraving F, F5, S1-S6 type AHX063- □ E, E5, G, G5, AHX064- □ G1, G6 type Replace the □ mark by the following color code. <table border="1"> <tr> <td>Button color</td> <td>Green</td> <td>Red</td> <td>Black</td> </tr> <tr> <td>Code</td> <td>G</td> <td>R</td> <td>B</td> </tr> </table> <table border="1"> <tr> <td>Button color</td> <td>Dark green</td> <td>Yellow</td> <td>White</td> </tr> <tr> <td>Code</td> <td>D</td> <td>Y</td> <td>W</td> </tr> </table> <table border="1"> <tr> <td>Button color</td> <td>Sky-blue</td> <td>Orange</td> </tr> <tr> <td>Code</td> <td>S</td> <td>O</td> </tr> </table>	Button color	Green	Red	Black	Code	G	R	B	Button color	Dark green	Yellow	White	Code	D	Y	W	Button color	Sky-blue	Orange	Code	S	O				
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Code	D	Y	W																								
Button color	Sky-blue	Orange																									
Code	S	O																									
 <p>SC-1094</p>	M, M5 type AHX065- □ Replace the □ mark by the following color code. <table border="1"> <tr> <td>Button color</td> <td>Green</td> <td>Red</td> <td>Black</td> </tr> <tr> <td>Code</td> <td>G</td> <td>R</td> <td>B</td> </tr> </table> <table border="1"> <tr> <td>Button color</td> <td>Dark green</td> <td>Yellow</td> <td>White</td> </tr> <tr> <td>Code</td> <td>D</td> <td>Y</td> <td>W</td> </tr> </table> <table border="1"> <tr> <td>Button color</td> <td>Sky-blue</td> <td>Orange</td> </tr> <tr> <td>Code</td> <td>S</td> <td>O</td> </tr> </table>	Button color	Green	Red	Black	Code	G	R	B	Button color	Dark green	Yellow	White	Code	D	Y	W	Button color	Sky-blue	Orange	Code	S	O				
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Code	S	O																									
 <p>SC-1012</p>	Type Used with AHX066- □ F, F5 type AHX067- □ E, E5 type Note: Replace the □ mark by the following color code. <table border="1"> <tr> <td>Symbol mark</td> <td>○</td> <td> </td> </tr> <tr> <td>Symbol mark color</td> <td>Red</td> <td>Green</td> </tr> <tr> <td>Button</td> <td>White</td> <td>Black</td> <td>White</td> <td>Black</td> </tr> <tr> <td>Code</td> <td>E</td> <td>F</td> <td>H</td> <td>J</td> </tr> </table> <table border="1"> <tr> <td>Symbol mark</td> <td>⊕</td> </tr> <tr> <td>Symbol mark color</td> <td>Green</td> </tr> <tr> <td>Button</td> <td>White</td> <td>Black</td> </tr> <tr> <td>Code</td> <td>T</td> <td>U</td> </tr> </table>	Symbol mark	○		Symbol mark color	Red	Green	Button	White	Black	White	Black	Code	E	F	H	J	Symbol mark	⊕	Symbol mark color	Green	Button	White	Black	Code	T	U
Symbol mark	○																										
Symbol mark color	Red	Green																									
Button	White	Black	White	Black																							
Code	E	F	H	J																							
Symbol mark	⊕																										
Symbol mark color	Green																										
Button	White	Black																									
Code	T	U																									
 <p>AF87-522</p>	V type AHX769- □ VL type AHX755- □ Replace the □ mark by the following color code. <table border="1"> <tr> <td>Button color</td> <td>Red</td> <td>Black*</td> <td>Yellow</td> </tr> <tr> <td>Code</td> <td>R</td> <td>B</td> <td>Y</td> </tr> </table> * Except VL type.	Button color	Red	Black*	Yellow	Code	R	B	Y																		
Button color	Red	Black*	Yellow																								
Code	R	B	Y																								

Pushbuttons/Selectors/Pilot Lights AH25 Accessories








Description	Type																		
Illuminated pushbutton  AF88-613	L, L5, L2, L6, L3, L7, L4 type Green AHX068-G, LG* Red AHX068-R, LR* Clear AHX068-C Orange AHX068-O Yellow AHX068-Y Sky-blue AHX068-S White AHX068-W, LW* *For LED lamp only																		
Pilot light round lens  SC-1001	ZM type Green AHX123-G, LG* Red AHX123-R, LR* Clear AHX123-C Orange AHX123-O Yellow AHX123-Y Sky-blue AHX123-S White AHX123-W, LW* *For LED lamp only																		
Pilot light faceted lens  SC-1002	ZK type Green AHX124-G, LG* Red AHX124-R, LR* Clear AHX124-C Orange AHX124-O Yellow AHX124-Y Sky-blue AHX124-S White AHX124-W, LW* *For LED lamp only																		
Pilot light square lens  SC-1009	ZS type Green AHX125-G Red AHX125-R Clear AHX125-C Orange AHX125-O Yellow AHX125-Y Sky-blue AHX125-S White AHX125-W																		
Pilot light and illuminated pushbutton square lens  SC-1011	ZN, SL1, SL6 type AHX126-□ Replace the □ mark by the following color code. <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Lens color</td> <td>Green</td> <td>Red</td> <td>Clear</td> <td>Sky-blue</td> </tr> <tr> <td>Code</td> <td>G</td> <td>R</td> <td>C</td> <td>S</td> </tr> </table> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Lens color</td> <td>Orange</td> <td>Yellow</td> <td>White</td> </tr> <tr> <td>Code</td> <td>O</td> <td>Y</td> <td>W</td> </tr> </table>	Lens color	Green	Red	Clear	Sky-blue	Code	G	R	C	S	Lens color	Orange	Yellow	White	Code	O	Y	W
Lens color	Green	Red	Clear	Sky-blue															
Code	G	R	C	S															
Lens color	Orange	Yellow	White																
Code	O	Y	W																
Legend plate  SF-1114	ZN, SL1, SL6 type AHX241-W Dimensions, mm 21.7sq.x2																		


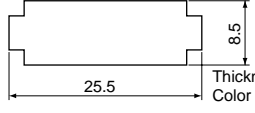




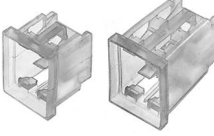
Description	Type																																																											
Incandescent lamp  AF89-427	<table border="1"> <thead> <tr> <th>Type</th> <th>Lamp voltage</th> <th>Rated voltage, consumption</th> </tr> </thead> <tbody> <tr> <td>AHX135</td> <td>5.5V AC/DC</td> <td>6.3V AC/DC, 1W</td> </tr> <tr> <td>AHX279</td> <td>15V AC/DC</td> <td>18V AC/DC, 1W</td> </tr> <tr> <td>AHX144</td> <td>20V AC/DC</td> <td>24V AC/DC, 1W</td> </tr> <tr> <td>AHX129</td> <td>24V AC/DC</td> <td>30V AC/DC, 1W</td> </tr> </tbody> </table> <p>Dimensions, mm:</p>  <p>Lamp base: BA9S/13</p>	Type	Lamp voltage	Rated voltage, consumption	AHX135	5.5V AC/DC	6.3V AC/DC, 1W	AHX279	15V AC/DC	18V AC/DC, 1W	AHX144	20V AC/DC	24V AC/DC, 1W	AHX129	24V AC/DC	30V AC/DC, 1W																																												
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AHX129	24V AC/DC	30V AC/DC, 1W																																																										
LED lamp 	<table border="1"> <thead> <tr> <th>Type</th> <th>Lamp voltage</th> <th>Used with</th> </tr> </thead> <tbody> <tr> <td>APX508-6 □</td> <td>6V AC</td> <td>Pilot Lights*</td> </tr> <tr> <td>APX508-D6 □</td> <td>6V DC</td> <td></td> </tr> <tr> <td>APX508-12 □</td> <td>12V AC/DC</td> <td></td> </tr> <tr> <td>APX508-15 □</td> <td>15V AC/DC</td> <td></td> </tr> <tr> <td>APX508-24 □</td> <td>24V AC/DC</td> <td></td> </tr> <tr> <td>APX510-6 □</td> <td>6V AC</td> <td>Illuminated pushbuttons,</td> </tr> <tr> <td>APX510-D6 □</td> <td>6V DC</td> <td>Illuminated</td> </tr> <tr> <td>APX510-12 □</td> <td>12V AC/DC</td> <td>selectors</td> </tr> <tr> <td>APX510-15 □</td> <td>15V AC/DC</td> <td></td> </tr> <tr> <td>APX510-24 □</td> <td>24V AC/DC</td> <td></td> </tr> </tbody> </table> <p>* When the pilot lights code is "W" (white), use an LED lamp (APX510-■O)</p> <p>Replace the □ mark by the luminous color code</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Luminous color</td> <td>Yellow</td> <td>Red</td> <td>Green</td> </tr> <tr> <td>Code</td> <td>Y</td> <td>R</td> <td>G</td> </tr> <tr> <td>Lens color</td> <td>Y</td> <td>R</td> <td>G</td> </tr> </table> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Luminous color</td> <td>Amber</td> <td>Orange</td> <td>Blue</td> </tr> <tr> <td>Code</td> <td>A</td> <td>O</td> <td>S</td> </tr> <tr> <td>Lens color</td> <td>O</td> <td>W</td> <td>S</td> </tr> </table> <p>Dimensions, mm:</p> <table style="width: 100%;"> <tr> <td style="text-align: center;">  APX508 </td> <td style="text-align: center;">  APX510 </td> </tr> </table> <p>Lamp base: BA9S/13</p>	Type	Lamp voltage	Used with	APX508-6 □	6V AC	Pilot Lights*	APX508-D6 □	6V DC		APX508-12 □	12V AC/DC		APX508-15 □	15V AC/DC		APX508-24 □	24V AC/DC		APX510-6 □	6V AC	Illuminated pushbuttons,	APX510-D6 □	6V DC	Illuminated	APX510-12 □	12V AC/DC	selectors	APX510-15 □	15V AC/DC		APX510-24 □	24V AC/DC		Luminous color	Yellow	Red	Green	Code	Y	R	G	Lens color	Y	R	G	Luminous color	Amber	Orange	Blue	Code	A	O	S	Lens color	O	W	S	 APX508	 APX510
Type	Lamp voltage	Used with																																																										
APX508-6 □	6V AC	Pilot Lights*																																																										
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 APX508	 APX510																																																											
Contact block  SG-370	<table border="1"> <tbody> <tr> <td>1NO</td> <td>AHX290</td> </tr> <tr> <td>1NC</td> <td>AHX291</td> </tr> </tbody> </table> <p>Note: Some models use dedicated contact blocks, so this may not be used. Contact FUJI.</p>	1NO	AHX290	1NC	AHX291																																																							
1NO	AHX290																																																											
1NC	AHX291																																																											





Pushbuttons/Selectors/Pilot Lights

AH25

Accessories

Description	Type	Used with	
 SG-370	AHX291L	VL, PL	
	Lamp terminal: for without transformer		
 SI-8	100 to 110V AC	AHX511-H	
	115 to 127V AC	AHX511-L	
	200 to 220V AC	AHX511-M	
	230 to 254V AC	AHX511-Q	
	350 to 380V AC	AHX511-S	
	400 to 440V AC	AHX511-T	
	480V AC	AHX511-V	
500 to 550V AC	AHX511-W		
 SH-183	100 to 110V AC	AHX513-H	
	115 to 127V AC	AHX513-L	
	200 to 220V AC	AHX513-M	
	230 to 254V AC	AHX513-Q	
	350 to 380V AC	AHX513-S	
	400 to 440V AC	AHX513-T	
	480V AC	AHX513-V	
500 to 550V AC	AHX513-W		
 AF89-824	AHX326	Combining the base unit with a standard transformer makes a separate mounting type transformer. It can be mounted to the panel with screw or rails.	
	* Not approved Secondary side terminal cover need to order.		
 AHX305 SG-842	AHX305	Contact block, lamp terminal unit	23.5×27.5×16
	AHX426	Pilot lights (without transformer)	27.5×31×8
	AHX376	Transformer	13×29×6.5
	AHX426	Short-body transformer	
 AHX426 AF92-339		Resistor unit	
	AHX376		
 AHX376 SG-5	The terminal cover is provided as standard with the applicable types listed above.		

Description	Type	Used with
 SG-842	AHX306	Illuminated type
	For pilot lights and AH326 (base unit)	
Dimensions, mm		
		
Thickness: 0.5mm Color : Black		
 SC-1016	AHX083	
	Key washer	
 SF-1113	Rubber	AHX151
	Resin (Standard)	AHX283
Use rubber packing for mounting on plastic panels or panels painted with natural dry paint.		
 SC-1148	For F, E, L, L5 type	Red AHX094 Black AHX095 White AHX096 Dark green AHX097 * Chrome-plate AHX098
	For ZM, ZK type	Chrome-plate AHX098-1
	For P, J, M, S1-S6, G, G5	Red AHX099 Black AHX100 White AHX101 Dark green AHX102 * Chrome-plate AHX103
	Note: Chrome-plated products marked with asterisk (*) are made of metal.	
	For F, E	AHX050
	For M, P	AHX051
	Note: The locking nut is made of aluminum	
	For G1, G6 type	AHX055
	For L2, L6 type	AHX058
	For L3, L7 type	AHX059
For L4 type	AHX060	
 SH-154	AHX323	In combination with this cap, the knob operated selector switch can be used as a dust-proof type.
	Dust-tight cap for knob operated selector switch	
 SG-1050 SG-1051	Used with	AHX315
	AH25	(1NO+1NC)
	F, E, G1, M, U	AHX316
	S1-S6, SF, SE,	(2NO+2NC)
	P, PW, J, PC	
	SJ, SP	

Description	Type							
Locking attachment for E type  AF89-613	AHX053 Locks the button as it is pressed, easily attached and removed with the nut.							
Special tool  SG-873	AHX321 This is a special tool for removing contact blocks and transformers. It can also remove round color lens.							
Legend plate (Standard)  Y-1545	AHX351() <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Pushbutton switch</th> <th style="width: 50%;">Selector switch</th> </tr> </thead> <tbody> <tr> <td>ON</td> <td rowspan="4">OFF-ON</td> </tr> <tr> <td>OFF</td> </tr> <tr> <td>START</td> </tr> <tr> <td>STOP</td> </tr> </tbody> </table> <p>Note: Put in the () ordering word as shown in the upper table Example: In case of STOP AHX351(STOP)</p>	Pushbutton switch	Selector switch	ON	OFF-ON	OFF	START	STOP
Pushbutton switch	Selector switch							
ON	OFF-ON							
OFF								
START								
STOP								
Legend plate (Unprinted)  AF-87-49	Unprinted aluminum AHX351-A Unprinted aluminum, short size AHX351-AS Black AHX351-B Black, short size AHX351-BS							

Pushbuttons/Selectors/Pilot Lights

AH25

Mass

■ Mass, gram

AH25 series

Type	1NO (1NC)	2NO (2NC) (1NO+1NC)	2NC + 2NO	3NC + 3NO	4NC + 4NO
AH25- F	42	56	80	104	128
E	44	58	82	106	130
M	48	62	86	110	134
G	51	65	89	113	137
G1	53	67	91	115	139
SF	80	94	118	142	166
SE	82	96	120	144	168
U	80	94	118	142	166
S1-S6	-	-	133	-	-
V	55	69	93	-	-
AH25- F5	59	73	97	-	-
E5	61	75	99	-	-
M5	65	79	103	-	-
G5	68	82	106	-	-
G6	70	84	108	-	-
SF5	97	111	135	-	-
SE5	99	113	137	-	-
AH25- L	61	75	99	123	147
L • T	131	143	167	-	-
L2	74	88	112	136	160
L2 • T	144	156	180	-	-
L3	78	92	116	140	164
L3 • T	148	160	184	-	-
L4	57	71	95	119	143
L4 • T	127	139	163	-	-
SL	99	113	137	161	185
SL • T	169	181	205	-	-
SL1	80	94	118	142	166
SL1 • T	150	162	186	-	-
VL	72	84	108	-	-
VL • T	129	141	-	-	-
AH25- L5	81	95	119	-	-
L5 • T	151	163	187	-	-
L6	94	108	132	-	-
L6 • T	164	176	200	-	-
L7	98	112	136	-	-
L7 • T	168	180	204	-	-
SL5	116	130	154	-	-
SL5 • T	186	198	222	-	-
SL6	97	111	135	-	-
SL6 • T	167	179	203	-	-

Type	1NO (1NC)	2NO (2NC) (1NO+1NC)	2NC + 2NO	3NC + 3NO	4NC + 4NO
AH25- P2, P0	62	76	100	124	148
P3, P5, P6	-	76	100	124	148
P1	-	128	152	-	-
PW2, PW0	67	81	105	129	153
PW3, PW5, PW6	-	81	105	129	153
PW1	-	133	157	-	-
SP2	89	103	127	151	175
SP3	-	103	127	151	175
PC	-	-	108	-	-
J2, J0	88	102	126	150	174
J3, J5, J6	-	102	126	150	174
SJ2	115	129	153	177	201
SJ3	-	129	153	177	201
AH25- PL2, PL0	71	83	107	131	-
PL2, PL0 • T	128	140	164	-	-
PL3, PL6, PL7	-	83	107	131	-
PL3, PL6, PL7 • T	-	140	164	-	-

AH25- ZM	29
ZM • T	99
ZM□8, □9	101
ZK	29
ZK • T	99
ZS	62
ZS • T	132
ZN	62
ZN • T	132

Note • T: With transformer

Type	1NO(1NC)/1NO(1NC)	2NO(2NC)/2NO(2NC) 1NO+1NC/1NO+1NC
AH25- F5/F5	151	175
F5/E5	153	177
F5/M5	157	181