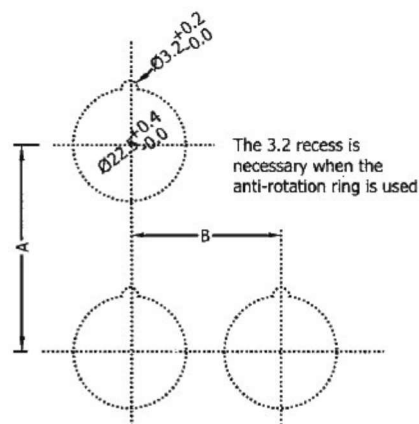# CONTROL UNITS

Space-saving, thin style contact blocks Separate operator part makes handling easy

• Small & light-weight.
• Finger-safe screw terminal of IP20 enhance safety.
• Separate control block makes installing and removing easy.
• Pilot lights feature a large lens to ensure a wide viewing angle for increased safety.

SPECIFICATIONS

Operating Conditions	Operating temperature: 20 to +55°C (no freezing) Operating humidity: 45 to 80% RH (no condensation) Storage temperature: -45 TO +80°C
Degree of Protection	Storage humidity: 95% RH Maximum From Pan front: IP65 (IEC 60529) Contact block: IP20 (IEC 60529)
Insulation Resistance	100M
Dielectric Strength	3500v, 1 minute
Vibration Resistance	Operating extremes: 5 to 55 Hz, amplitude 0.5mm Damage limits: 30Hz, amplitude 1.5mm
Shock Resistance	Operating extremes: 100 m/s2 Damage limits: 1000 m/s2
Mechanical Life	<and illuminated pushbutton> Momentary: 5,000,000 Operations minimum Maintained: 250,000 Operations minimum
Electrical Life	<Selector switch> 250,000 Operations minimum Pushbutton: 100,000 Operations minimum Selector switch: 100,000 Operations minimum

The 3.2 recess is necessary when the anti-rotation ring is used

INCANDESCENT LAMP RATINGS

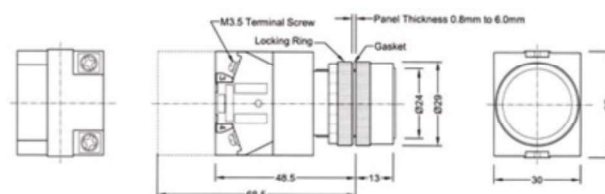| UNITS	A (MINIMUM)	B (MINIMUM)
Pushbutton Selector Switch	50mm	30mm
Mushroom Pushbutton	50mm	40mm
Pilot Light	30mm	30mm

PUSHBUTTON (FLUSH TYPE) BW101 (CLOSED), ABW11 (OPEN)

ABW 401

ABW 110/101

Product Code	Operation	Contact	Button Colour Code
ABW 110	Momentary	1 NO	B (Black)
ABW 101	Momentary	1 NC	G (Green) R (Red) Y (Yellow)
ABW 411	Emergency Push Button	1 NO	Red
ABW 401/301	Emergency Push Button	1 NC	Red / 30 /40mm

* Other model of push button are available, upon request.

PILOT LIGHT - LED

APL 230/24

Product Code	Diameter	Vol	Colour
APL 22B	22mm	24 V	G (Green), R (Red) Y (Yellow)
APL 22M	22mm	230 V	G (Green), R (Red) Y (Yellow), B (Blue), W (White)
APL 16B	16mm	24 V	G (Green), R (Red) Y (Yellow)
APL 22N	22mm	415V	W (White), Y (Yellow), R (Red), B (Blue)

Standard IEC 60947, GB14048-5, CCC & CE.

SELECTOR SWITCH

ASW 210/320

Product Code	No. of Operation	Contact Configuration	Contact Block Mounting Position		Operator Position		
ASW 210	90° 2-position	1 NO (10)	①	NO			
			②			●	
ASW 320	45° 3-position	2 NO (20)	①	NO	●		
			②				
			③	NO			●

* Other types of Switches will be available upon request.