

Plastic Enclosures for 22mm Pilot Devices

Switch Enclosures

Switch Enclosures			
Specification Standard	Enclosure Material	Gasket Material	Degree of Protection
CEI EN 60947-5-1	Thermoplastic ABS, conforms to UL94/HB	Caoutchouc (rubber) foam	IP65 according to CEI EN 60529

Also check out our metal pushbutton enclosures in the Enclosures section.



SA107-40SL **SA105-40SL** **SA100SL**

Enclosures have molded knock-outs for 1/2" conduit fittings.

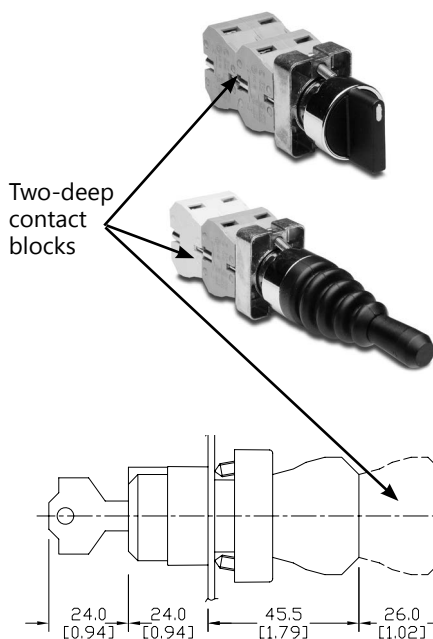
Important notes about enclosure depth and over-tightening

Switches with two-deep contact blocks require enclosures that are 74mm deep: 51mm-deep enclosures are too shallow and the switch contact block will not fit.

For switches with one-deep contact blocks, either 51mm-deep or 74mm-deep enclosures can be used.

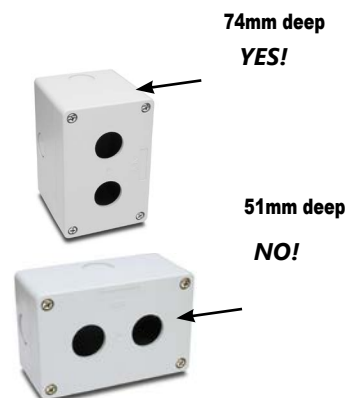
Also, do not over-tighten when securing switch in the enclosure body. Over-tightening will crack the plastic body of the enclosure.

When installing pushbutton, switches, and joysticks with securing screws, ensure that they have good purchase on area away from the perforated key-way slots made for other switch types. Securing screws should be tightened to 4.5 lb-in or less.



Dimensions: mm [inches]

For example: If using a switch having a two-deep contact block with a two-hole enclosure, order a 74mm-deep [SA104SL](#), not a 51mm-deep [SA105-40SL](#).



No-Hole Model

No Hole Model					
Part Number	Color	Price	Drawing Link	Hole Size/Depth	Mounting Instructions
SA111-00	Gray	\$14.00	PDF	No Holes	Tighten 22mm devices only as needed to provide proper sealing. Over-tightening will crack plastic body.

Note: This enclosure works with most 22mm pushbuttons but may not work with Cutler-Hammer E22 series pushbuttons. Check your pushbutton dimensions before ordering.



74mm deep:
[SA111-00](#)

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Single-Hole Models



51mm deep:

[SA100SL](#)

[SA101SL](#)



74mm deep:

[SA103SL](#)

[SA104SL](#)

Single-Hole Models					
Part Number	Color	Price	Drawing Link	Hole Size/Depth	Mounting Instructions
<u>SA100SL</u>	Gray	\$7.50	<u>PDF</u>	Hole size fits 22mm devices, 51mm depth accommodates single-deep contact block switches	Tighten 22mm devices only as needed to provide proper sealing Over-tightening will crack plastic body.
<u>SA101SL</u>	Gray body/yellow top	\$8.00	<u>PDF</u>		
<u>SA103SL</u>	Gray	\$8.50	<u>PDF</u>	Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches	
<u>SA104SL</u>	Gray body/yellow top	\$8.75	<u>PDF</u>		

Two-Hole Models



51mm deep:

[SA105-40SL](#)

Two-Hole Models					
Part Number	Color	Price	Drawing Link	Hole Size/Depth	Mounting Instructions
<u>SA105-40SL</u>	Gray	\$9.25	<u>PDF</u>	Hole size fits 22mm devices, 51mm depth accommodates single-deep contact block switches	Tighten 22mm devices only as needed to provide proper sealing. Over-tightening will crack plastic body.
<u>SA106-40SL</u>	Gray	\$10.00	<u>PDF</u>	Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches	

Three-Hole Models



51mm deep:

[SA107-40SL](#)

Three-Hole Models					
Part Number	Color	Price	Drawing Link	Hole Size/Depth	Mounting Instructions
<u>SA107-40SL</u>	Gray	\$11.50	<u>PDF</u>	Hole size fits 22mm devices, 51mm depth accommodates single-deep contact block switches	Tighten 22mm devices only as needed to provide proper sealing. Over-tightening will crack plastic body.
<u>SA108-40SL</u>		\$13.00	<u>PDF</u>	Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches	

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Four-Hole Models



51mm deep:
[SA109-40SL](#)

Four-Hole Models					
Part Number	Color	Price	Drawing Link	Hole Size/Depth	Mounting Instructions
<u>SA109-40SL</u>	Gray	\$13.00	<u>PDF</u>	Hole size fits 22mm devices, 51mm depth accommodates single-deep contact block switches	Tighten 22mm devices only as needed to provide proper sealing. Over-tightening will crack plastic body.
<u>SA110-40SL</u>		\$15.50	<u>PDF</u>	Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches	

Five-and Six-Hole Models



74mm deep:
[SA111](#)



74mm deep:
[SA112](#)

Five-and Six-Hole Models					
Part Number	Color	Price	Drawing Link	Hole Size/Depth	Mounting Instructions
<u>SA111</u>	Gray	\$14.00	<u>PDF</u>	Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches	Tighten 22mm devices only as needed to provide proper sealing. Over-tightening will crack plastic body.
<u>SA112</u>		\$14.50	<u>PDF</u>	Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches	

Note: These enclosures work with most 22mm pushbuttons, but may not work with Cutler-Hammer E22 series pushbuttons. Check your pushbutton dimensions before ordering.

GCX Series 22mm Plastic Pilot Devices

Specifications

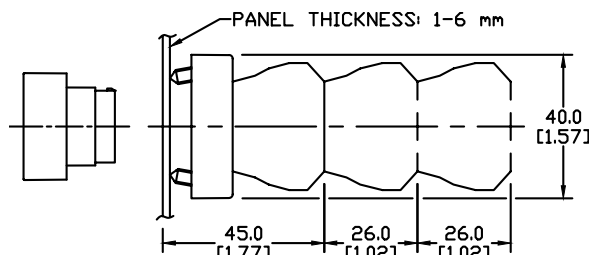
Assembly information

These pushbuttons and indicator lights are supplied with the appropriate contact blocks, unless otherwise indicated. Use these drawings as a guide to make sure there is adequate clearance behind the panel.

Dimensions

mm
[inches]

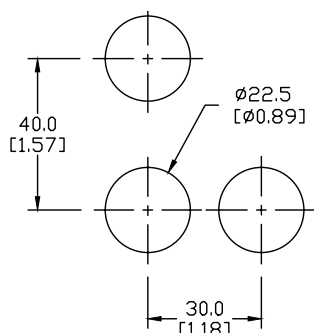
Pushbuttons and selector switches



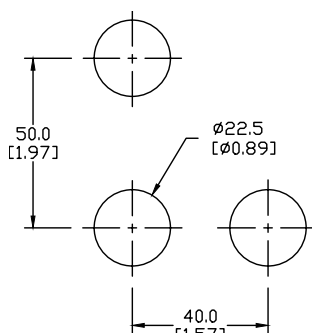
Illuminated pushbuttons and selector switches/indicator lights



Mounting



This layout is suitable if all switches are 230V or less and the same polarity.

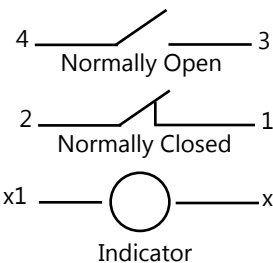


This layout is suitable if all switches are 400V or less and different polarity.

NOTE: Contact blocks can be arranged up to three deep by two wide.



Typical Wiring



Specifications

These specifications apply to all the GCX and ECX 22mm plastic pushbuttons and switches.

Physical Specifications		Electrical Specifications	
Standards Reference	CEI EN 60947-5-1, CSA C22-2 n.14	Rated Thermal Current (contact block)	A300, Q300 (Refer to E22 Series mounting/contact rating section for details)
Approvals	UL File E189258, IMQ (where specified)	Rated Insulation Voltage	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508
Enclosure Material	Fiberglass reinforced thermoplastic	Dielectric Strength	3kV (1 second)
Contacts Material	Silver	Insulation Resistance	2MΩ min. (500VDC)
Protection Degree	IP40 for GCX3151-24, GCX3151-120, GCX3153-24 and GCX3153-120. IP65 for all others. (See Appendix of this catalog for explanation of IP ratings according to IEC 144 CEI 70-1.)	Initial Contact Resistance	≤ 25mΩ
Electric Shock Protection	IEC 536, Class II	Short-Circuit Protection*	Cartridge fuses gl 10 A-500V 10, 3x38/1 100 KA
Temperature Ratings	Storage: -40 to 80°C (-40 to 176° F) Operating: -25° to +70°C (-13° to 158° F)	Terminal Markings	According to CENELEC EN 50013
Working Positions	All working positions are allowed	Connections	Single screw with non-loosening plate clamp, 14AWG max., Tighten to 0.8Nm max
Mechanical Life	Pushbuttons, selector switches, joy stick switches: 1,000,000 operations Emergency mushrooms and push-push pushbuttons: 300,000 operations	Contacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow-action, positive opening
Positive Opening Operation	(according to IEC 947-5-1) All functions incorporating an NC contact are positive opening operation	Operation Frequency	3600 operations per hour max.
		Utilization Category	AC15 (Control of AC electromagnetic loads) 24 volts AC at 10 amps 130 volts AC at 6.5 amps DC13 (Control of DC electromagnetic loads) 24 volts DC at 1.5 amps 110 volts DC at 0.5 amps

*Note: Recommended, not supplied