### **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.



<u>SA107-40SL</u> <u>SA105-40SL</u> <u>SA100SL</u> Enclosures have molded knock-outs for 1/2" conduit fittings.

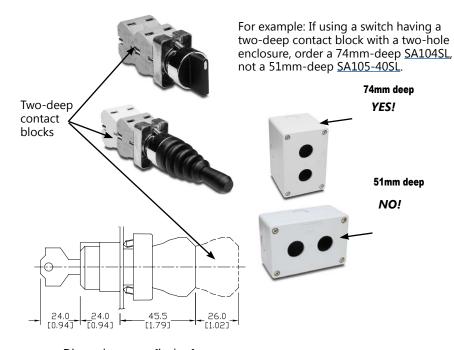
# Important notes about enclosure depth and over-tightening

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]

#### No-Hole Model

No Hole Model						
Part Number	Color	Price	ce Drawing 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

### **Plastic Enclosures for 22mm Pilot Devices**

#### **Single-Hole Models**



51mm deep: <u>SA100SL</u> <u>SA101SL</u>



74mm deep: SA103SL SA104SL

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

#### **Two-Hole Models**



51mm deep: SA105-40SL

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

#### **Three-Hole Models**



51mm deep: SA107-40SL

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

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### **Plastic Enclosures for 22mm Pilot Devices**

#### **Four-Hole Models**



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

# Five-and Six-Hole Models





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.
<u>SA112</u>		\$14.50	<u>PDF</u>	Hole size fits 22mm devices, 74mm depth accommodates two-deep contact block switches	Over-tightening will crack plastic body.

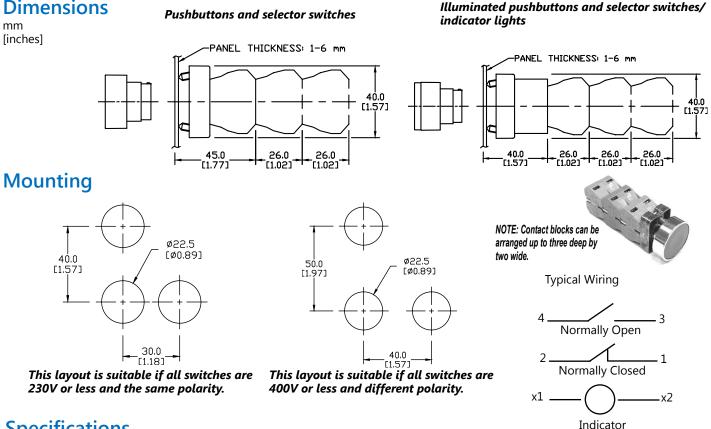
Note: These enclosures work with most 22mm pushbuttons, but may not work with Cutler-Hammer E22 series pushbuttons. Check your pushbutton dimensions before ordering.

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## **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.



#### **Specifications**

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

Physical Specifications				
Standards Reference	CEI EN 60947-5-1, CSA C22-2 n.14			
Approvals	UL File E189258, IMQ (where specified)			
Enclosure Material	Fiberglass reinforced thermoplastic			
Contacts Material	Silver			
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.)			
Electric Shock Protection	IEC 536, Class II			
Temperature Ratings	Storage: -40 -to 80°C (-40 to 176° F) Operating: -25° to +70°C (-13° to 158° F)			
Working Positions	All working positions are allowed			
Mechanical Life	Pushbuttons, selector switches, joy stick switches: 1,000,000 operations Emergency mushrooms and push-push pushbuttons: 300,000 operations			
Positive Opening Operation	(according to IEC 947-5-1) All functions incorporating an NC contact are positive opening operation			

Electri	ical Specifications
Rated Thermal Current (contact block)	A300, Q300 (Refer to E22 Series mounting/contact rating section for details)
Rated Insulation Voltage	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508
Dielectric Strength	3kV (1 second)
Insulation Resistance	2MΩ min. (500VDC)
Initial Contact Resistance	≤ 25mΩ
Short-Circuit Protection*	Cartridge fuses gl 10 A-500V 10, 3x38l1 100 KA
Terminal Markings	According to CENELEC EN 50013
Connections	Single screw with non-loosening plate clamp,14AWG max.,Tighten to 0.8Nm max
Contacts Operation	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow-action, positive opening
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

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