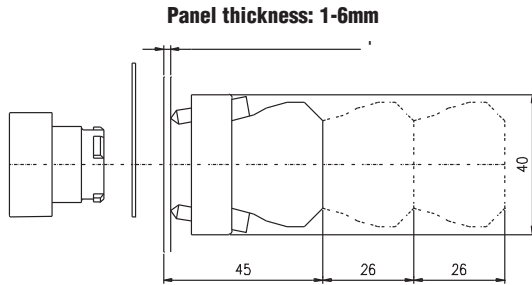


# 22 mm Plastic Pilot Devices Specifications

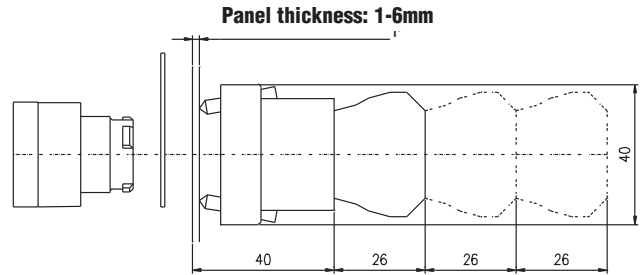
## Assembly information

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.

### Pushbuttons and selector switches

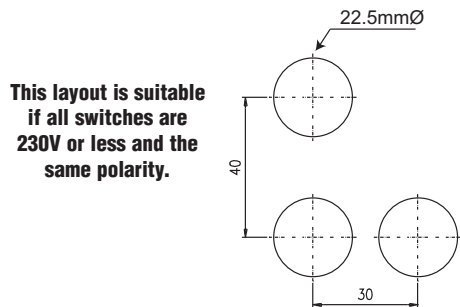


### Lighted pushbuttons and selector switches/pilot lights

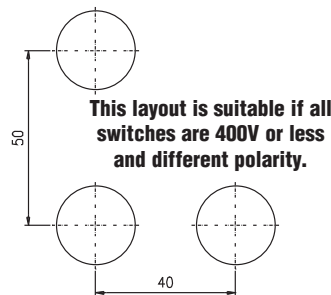


## Panel holes

For safe operation, use these mounting hole drawings to ensure that there is adequate space between switches.

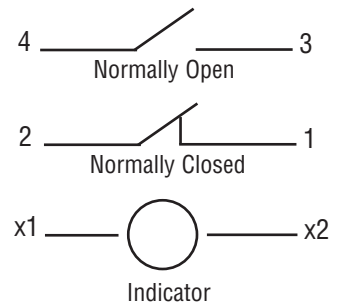


This layout is suitable if all switches are 230V or less and the same polarity.



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

## Typical Wiring



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

## Specifications

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

Physical Specifications	
<b>Standards Reference</b>	CEI EN 60947-5-1, CSA C22-2 n.14
<b>Approvals</b>	CSA, IMQ (where specified), UL File E189258
<b>Enclosure Material</b>	Fiberglass reinforced thermoplastic
<b>Contacts Material</b>	Gold plated silver
<b>Protection Degree</b>	IP 40 for GCX3151-24, GCX3151-120, GCX3153-24 and GCX3153-120. IP 65 for all others. (See Appendix of this catalog for explanation of IP ratings according to IEC 144 CEI 70-1.)
<b>Electric Shock Protection</b>	IEC 536, Class II
<b>Temperature Ratings</b>	Storage: -40° to 80°C (-40° to 176° F) Operating: -25° to +70°C (-13° to 158° F)
<b>Working Positions</b>	All working positions are allowed
<b>Mechanical Life</b>	Pushbuttons, selector switches, joy stick switches: 1,000,000 operations Emergency mushrooms and push-push pushbuttons: 300,000 operations
<b>Positive Opening Operation</b>	(according to IEC 947-5-1) All functions incorporating an NC contact are positive opening operation

Electrical Specifications	
<b>Rated Thermal Current (contact block)</b>	A300, Q300 (Refer to page e24-51 for further information)
<b>Rated Insulation Voltage</b>	Ui 660V according to CEI EN 60947-5-1, 300V according to CSA C22-2 n.14 and UL 508
<b>Dielectric Strength</b>	3KV (1 second)
<b>Insulation Resistance</b>	2MΩ min. (500VDC)
<b>Initial Contact Resistance</b>	≤25mΩ
<b>Short-Circuit Protection*</b>	Cartridge fuses gl 10 A-500V 10, 3x3811 100 KA
<b>Terminal Markings</b>	According to CENELEC EN 50013
<b>Connections</b>	Single screw with non-loosening plate clamp, 14AWG max.
<b>Contacts Operation</b>	Self-cleaning types EN01 (N.C.) EN 10 (N.O.) slow action, positive opening
<b>Operation Frequency</b>	3600 operations per hour max.
<b>Utilization Category</b>	<b>AC15</b> (Control of AC electromagnetic loads) 24 volts AC at 10 amps 130 volts AC at 6.5 amps <b>DC13</b> (Control of DC electromagnetic loads) 24 volts DC at 1.5 amps 110 volts DC at 0.5 amps

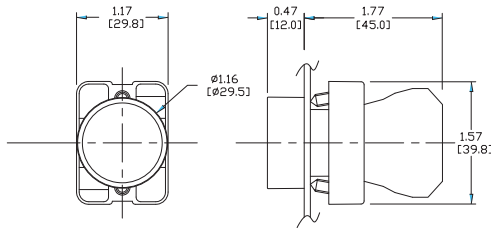
\*Note: Recommended, not supplied

# 22 mm Plastic Pushbuttons

Momentary flush pushbuttons with protective plastic ring (30 mm dia. actuator)



**GCX3102**

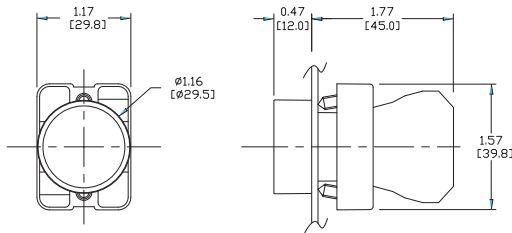


Part Number	Color	Description	Price
<b>GCX3100</b>	Black	One N.O. contact block, 30 mm dia. actuator, mounts in 22 mm hole	<--->
<b>GCX3101</b>	Red	One N.C. contact block, 30 mm dia. actuator, mounts in 22 mm hole	<--->
<b>GCX3102</b>	Green	One N.O. contact block, 30 mm dia. actuator, mounts in 22 mm hole	<--->
<b>GCX3103</b>	Yellow		<--->
<b>GCX3104</b>	Blue		<--->
<b>GCX3105</b>	White		<--->

Momentary Flush ON/OFF pushbuttons with protective plastic ring (30 mm dia. actuator)



**GCX3106**



**GCX3107**

Part Number	Color	Description	Price
<b>GCX3106</b>	Red with OFF symbol (O) on actuator	One N.C. contact block, 30 mm dia. actuator, mounts in 22 mm hole	<--->
<b>GCX3107</b>	Green with ON symbol (I) on actuator	One N.O. contact block, 30 mm dia. actuator, mounts in 22 mm hole	<--->

Note: All dimensions are in inches [millimeters].

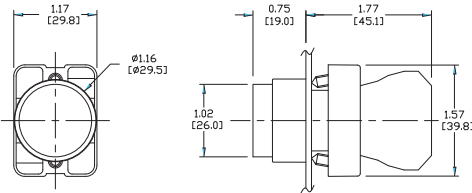
- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMIs
- Other HMI
- AC Drives
- Motors
- Steppers/Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Current Sensors
- Pushbuttons/Lights**
- Process
- Relays/Timers
- Comm.
- TB's & Wiring
- Power
- Circuit Protection
- Enclosures
- Appendix
- Part Index

# 22 mm Plastic Pushbuttons

## Momentary extended pushbuttons



**GCX3113**



Part Number	Color	Description	Price
<b>GCX3110</b>	Black	<b>One N.O.</b> contact block, extended 30 mm dia. actuator, mounts in 22 mm hole	<--->
<b>GCX3111</b>	Red	<b>One N.C.</b> contact block, extended 30 mm dia. actuator, mounts in 22 mm hole	<--->
<b>GCX3112</b>	Green	<b>One N.O.</b> contact block, extended 30 mm dia. actuator, mounts in 22 mm hole	<--->
<b>GCX3113</b>	Yellow		<--->
<b>GCX3114</b>	Blue		<--->
<b>GCX3115</b>	White		<--->

## Double-headed momentary pushbuttons

Part Number	Double-headed Momentary Pushbuttons Description	Price
<b>GCX3150</b>	Double-headed for on/off control, <b>One N.O.</b> and <b>one N.C.</b> contact block, fits in 22 mm dia. hole, without symbols	<--->
<b>GCX3151-24</b>	24VDC/VAC double-headed with indicator, faces without symbols. <b>One N.O.</b> and <b>one N.C.</b> contact block, fits in 22 mm dia. hole	<--->
<b>GCX3151-120</b>	120VDC/VAC double-headed with indicator, faces without symbols. <b>One N.O.</b> and <b>one N.C.</b> contact block, fits in 22 mm dia. hole	<--->
<b>GCX3152</b>	Double-headed for on/off control. <b>One N.O.</b> and <b>one N.C.</b> contact block, fits in 22 mm dia. hole. With "ON" (I) and "OFF" (O) symbols	<--->
<b>GCX3153-24*</b>	24VDC/VAC double-headed with indicator, with ON (1) and OFF (0) symbols. <b>One N.O.</b> and <b>one N.C.</b> contact block	<--->
<b>GCX3153-120*</b>	120VDC/VAC double-headed with indicator, with ON (1) and OFF (0) symbols. <b>One N.O.</b> and <b>one N.C.</b> contact block	<--->

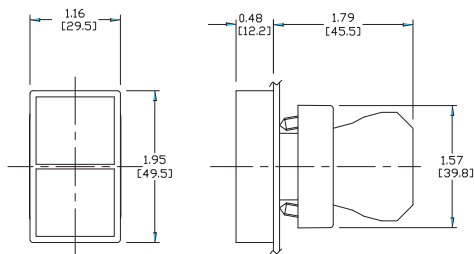
\* Note: Lamp data on page e24-21.



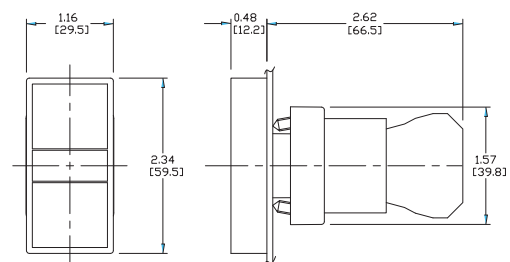
**GCX3152 (with on/off symbols)**



**GCX3151-24**



**GCX3150, GCX3152 models**



**GCX3151-24, GCX3153-24, GCX3151-120, GCX3153-120 models**