EZ Illuminated Switch

EZ Illuminated Switch
Model: PFXZCCEUSG1

| 22mm Install | USB Connect |

Powered by

Screen Editor GP-Pro EX

CSA c(UL)us LISTED CE AII49

Features:
- Seamless configuration with Pro-face Screen Editor Software, GP-Pro EX..
- Easy 22-mm hole mounting
- Simple USB cable connection to an HMI unit
- 6-color, programmable lamps with 3 blink speeds
- External switches with labels for machine operation with tactile feedback
- 5 lights to indicate alarm status with different colors

Specifications

Model	PFXZCCEUSG1
Supported Software	GP-Pro EX Ver. 3.1 or later
Supported HMI Models	GP4000 Series, GP4000M Modular HMI Series*, LT4000M
Number of Switches	5 illuminated switches
Durability of Switches	1 million times or more for each switch
LED Colors	Red, Green, Yellow, Blue, White, Orange
Function Key Label	Printable and replaceable function key labels

* When you connect with GP4000M Series, please connect via self power USB Hub.

General Specifications

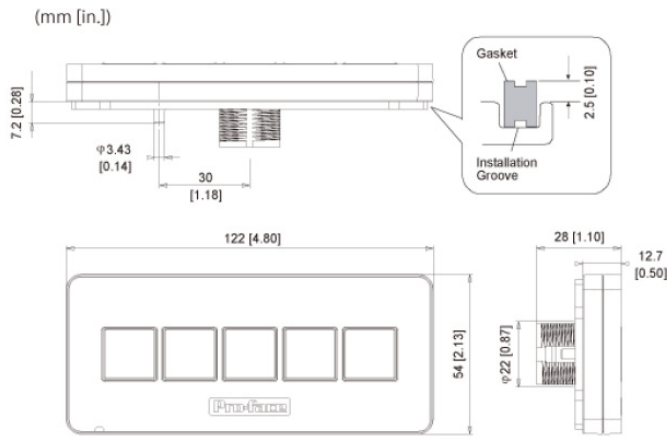| Model	PFXZCCEUSG1
Certifications	CE - EN61000-6-2, EN61000-6-4; UL - UL508, ANSI/ISA-12.12.01 (Hazardous Locations), cUL; RoHS, RoHS China, C-Tick; GOST-R; REACH; KC*1, Class 1 Div 2 Groups A,B,C,D, CSA
Electical Specifications	
Rated Input Voltage	5 Vdc (Powered from USB bus)
Input Voltage Limits	4.75 to 5.25 Vdc
Power Consumption *2	2.0 W or less
Environmental Specification	
Surrounding Air Operating Temperature	0 to 55 °C (32 to 131 °F)
Storage Temperature	-20 to 60 °C (-4 to 140 °F)
Surrounding Air and Storage Humidity	10 to 90 % RH (Wet bulb temperature: 39 °C [102.2 °F] or less - no condensation.)/ 10 to 90 % RH
Dust	0.1 mg/m3 (10-7 oz/ft3) or less (nonconductive levels)
Polution Degree	For use in Pollution Degree 2 environment
Corrosive Gasses	Free of corrosive gas
Operating Altitude	2,000m [6,561 ft] or lower
Mecheical Environment	
Vibration Resistance	IEC/EN 61131-2 compliant 5 to 9 Hz Single amplitude 3.5 mm (0.14 in.), 9 to 150 Hz Fixed acceleration: 9.8 m/s2, X, Y, Z directions for 10 cycles (100 min.)
Concussion Resistance	IEC/EN 61131-2 compliant, (147 m/s2, X, Y, Z directions for 3 times)
Electrical Environment	
Electrical Fast Transient Burst	IEC61000-4-4, 2 kV Power Port (Display Unit), 1 kV Signal Ports
Electrostatic Discharge Immunity	IEC61000-4-2, 6 kV Contact Discharge, 8 kV Air Discharge
External Specifications	
Connector Type	USB I/F: Type B (socket) for EZ illuminated Switch, Type A (Plug) for HMI, USB 2.0 Full Speed
USB Cable Length	1m (Removable) *Max 5m with extension cable, when it gets appropriate power.
External Dimension	W122 x H54 x D28 mm (W4.80 x H2.13 x D1.10 in.)
Structure *3	IP65 NEMA #250 TYPE 4X/13, (on the front panel when properly installed in an enclosure)
Cutout Dimensions	22mm hole mounting
Weight	110 g (0.24 lb) or less

*1: Suitable for use in Class I, Division 2, Groups A, B, C and D Hazardous Locations

*2: If connecting to a display unit that has a USB I/F with an output current of less than 500 mA, be sure to supply power from an external source (such as a self-powered hub) to EZ Illuminated Switch because the display unit cannot supply enough power.

*3: The front face of the unit, installed in a solid panel, has been tested using conditions equivalent to the standards shown in the specification. Even though the unit's level of resistance is equivalent to these standards, oils that should have no effect on the unit can possibly harm the panel. This can occur in areas where either vaporized oils are present, or where low viscosity cutting oils are allowed to adhere to the panel for long periods of time. If the unit's front face protection sheet peels off, these conditions can lead to the ingress of oil into the unit and separate protection measures are suggested. Also, if non-approved oils are present, they may cause deformation or corrosion of the front panel's plastic cover. Therefore, prior to installing the unit, be sure to confirm the type of conditions that will be present in the unit's operating environment. If the installation gasket is used for a long period of time, or if the unit and its gasket are removed from the panel, the original level of protection cannot be kept. To maintain the original protection level, be sure to replace the installation gasket regularly.

Note:
The upper surface of the gasket should protrude approximately 2.5 mm (0.1 in.) from the groove. Check the gasket is inserted correctly before installing this unit to a panel. A gasket with scratches or dirt could have lost much of its water resistance. It is recommended that the gasket should be changed periodically (e.g. once a year, or as soon as scratches or dirt become visible) for water resistance equivalent to IP65.

Dimension Drawing

(mm [in.])

Gasket

Installation Groove

7.2 [0.28]

φ 3.43 [0.14]

30 [1.18]

2.5 [0.10]

122 [4.80]

28 [1.10]

12.7 [0.50]

54 [2.13]

φ22 [0.87]

Ordering Information

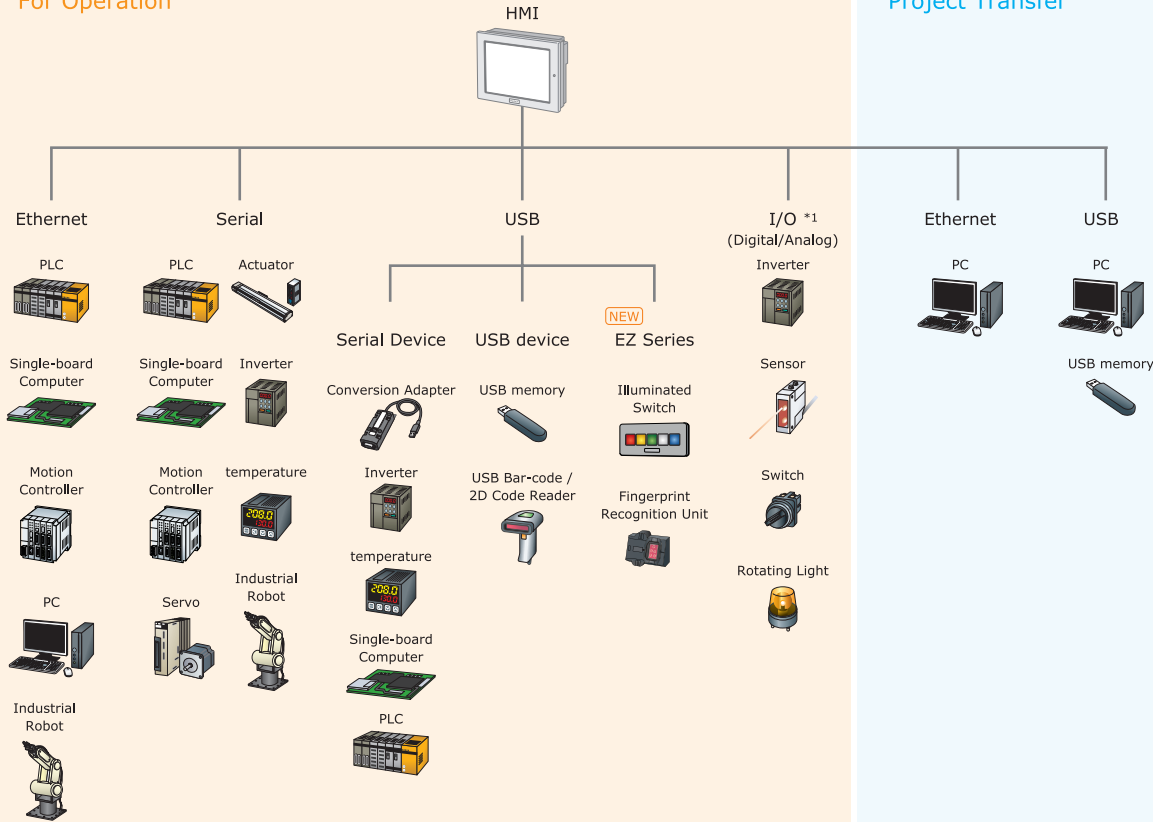| Part Number	Description
PFXZCCEUSG1	A unit of 5 illuminated switches with multiple color LED easily connected with HMI via USB.

Options

Part Number	Description
PFXZCCAK1	Anti-rotation Tee, USB cable clamp to prevent disconnection (USB/B, 1 port), (5 pcs/each) Insert Label for EZ Illuminated Switch (3 pieces/sheet)
PFXZCCAT1	2mm spacer to adjust installation panel thickness (for EZ Illuminated Switch), with φ22mm circular hole
PFXZCDWGSG1	Provides dust and moisture resistance when EZ Illuminated Switch is installed into a solid panel (1 piece)
PFXZGMNT1	Nut for installation to a solid panel (10 pieces/set)
PFXZGMSW1	Socket wrench to tighten and loosen the installation nut (1 piece/set)

Easily Connect to Pro-face HMIs

For Operation

Project Transfer

HMI

Ethernet

Serial

USB

I/O *1 (Digital/Analog)

Ethernet

USB

PLC

PLC

Actuator

Inverter

PC

PC

Single-board Computer

Single-board Computer

Inverter

Serial Device

USB device

EZ Series [NEW]

Sensor

USB memory

Motion Controller

Motion Controller

temperature

Conversion Adapter

USB memory

Illuminated Switch

Switch

PC

Servo

temperature

Inverter

USB Bar-code / 2D Code Reader

Fingerprint Recognition Unit

Rotating Light

Industrial Robot

Industrial Robot

temperature

Single-board Computer

PLC

*1 : Only for HMI with I/O interfaces.

Pro-face America

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For more information

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