Series FP01

Distinctive Characteristics

Brilliant illumination for highly visible status indication with LEDs and caps in red, green, or amber; subdued illumination for low light requirements with white cap over red, green, or amber LEDs.

Photo interrupter, rather than contacts, ensures high reliability and long life of 3 million operations minimum.

Rugged construction and smooth actuation allow repeated, rapid actuation force anywhere on cap surface.

Snap-in mounting for easy installation.

Connector socket with 6 pins for simple connection.

Well suited for gaming and vending machines, as well as equipment exposed to corrosive gases used in environments such as chemical or steel manufacturing plants.



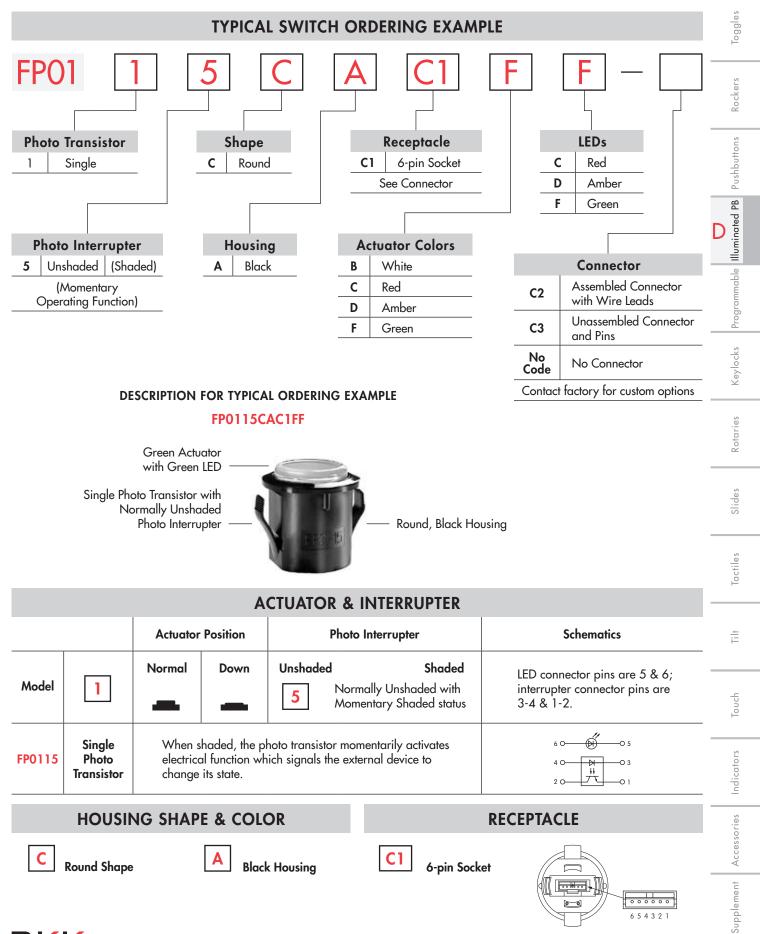
Actual Size





Contactless Pushbuttons

Series FP01



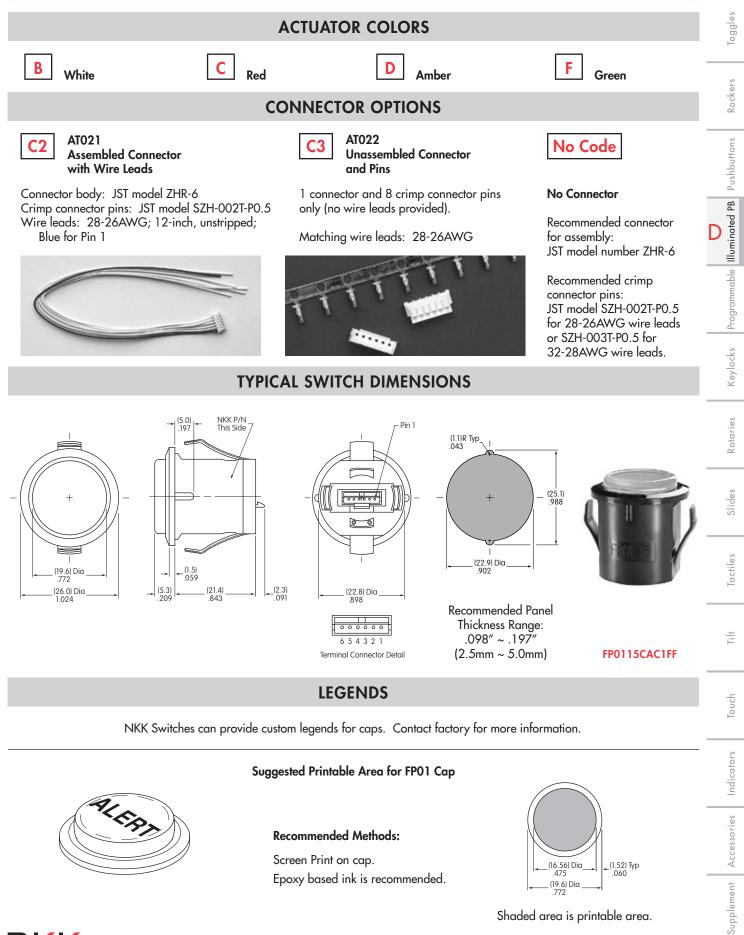


Toggles	SWITCH SPECIFICATIONS							
To	Actuator Up				Actuator Down			
Rockers	Status of Photo Interr	Status of Photo Interrupter: Unshaded			Shaded			
	Collector Curre	0.8mA minimum		10µA maximum				
	Status of Photo Tran	On			Off			
s	Output Condition of Photo Tran	$I_{F} = 20mA \& V_{CE} = 5V$						
Pushbuttons	MECHANICAL SPECIFICATIONS							
	Total T	.079″ (2.0mm)						
Illuminated PB	Operating	0.75 N (.169 lbf)						
	Mechanica	3,000,000 operations minimum						
	Operating Temperature Range: -25°C through +50°C (-13°F through +12						2°F)	
Programmable	MATERIALS							
gram	Actuator: Polya	acetal	Housing:	Polyamide				
	PHOTO INTERRUPTER SPECIFICATIONS (Temperature @ 25°C)							e @ 25°C)
Keylocks	Electrical & Optical Characteristics		Typical	Maximu	m	Condit	ion	
Key	Input							
Rotaries	Forward Volte	age V _r :	1.3V	1.6V		I _F = 50	mA	
	Reverse Cu	rrent I _R :		10µA		F _R = 5∖	/	
	Transmission							
	Collector-Emitter Saturation Voltage	V _{CE} sat:		0.4V		I _F = 20	mA & $I_c =$	0.1mA
Slides	Absolute Maximum Ratings							
	Input LED Output Photo Transistor							
	Typical Forward Current I _F : 50mA			Collector	-Emitte	er Voltage	V _{CEO} : 30	V
Tactiles	Reverse Voltage V _R : 5V			Emitter-C	Collecto	or Voltage	V _{ECO} : 4.3	5V
	Power Dissipation P _p : 80mW	Collector Current I _c : 30mA						
	Collector Dissipation P _c : 80mW							
Til+	Circuit Design Considerations		Vcc=5	180 RL				
	Output of the infrared LED in the photo interrupter decreases approximately 50% after 100,000 hours.				O VOUT			
	Recommended load resistance (RL) is $40k \sim 120k\Omega$		Threshold Voltag	_{je 3} ¥ ≠ K 1				
Touch	for the illustrated circuit.		VHI: 3.8V VLO: 1.0V	⊥ ⊥ GND				
	LED COLORS & SPECIFICATIONS							
nent Accessories Indicators	LEDs are an integral $R + \frac{1}{2}$	Sinala E	lement LED			С	D	F
	part of the switch and not available separately.	Single E		(Color	Red	Amber	Green
	The electrical speci-		m Forward C	urrent	I _{FM}	30mA	25mA	30mA
	fications shown are Cathode		orward Curr		I _F	20mA	20mA	20mA
	temperature of 25° C E – Vr		Voltage		V _F	1.85V	2.0V	2.1V
	If the source voltage $R = \frac{1}{ r_F }$		n Reverse Vo	ltage	V _{RM}	5V	5V	10V
	exceeds the rated voltage, a ballast	Current	Reduction ove 25°C		ΔI _F	0.38mA /°C	0.28mA /°C	0.40mA /°C
Supplement	resistor is required. $I_F = Forward Current (A)$	Ambient Temperature Range			-25° ~ +50°C			
Su								

SWITCH

E S

Series FP01



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