Distinctive Characteristics

Compact front panel design with 9mm square or round bezel.

Rear panel threaded mounting. Behind panel depth of less than one inch. 8mm body diameter fits common size panel cutout.

Latchdown feature gives indication of circuit status. Audible and tactile feedback with smooth and responsive operation.

Dual, sliding contacts with self-cleaning action provide contact stability, high reliability, and increased operating life.

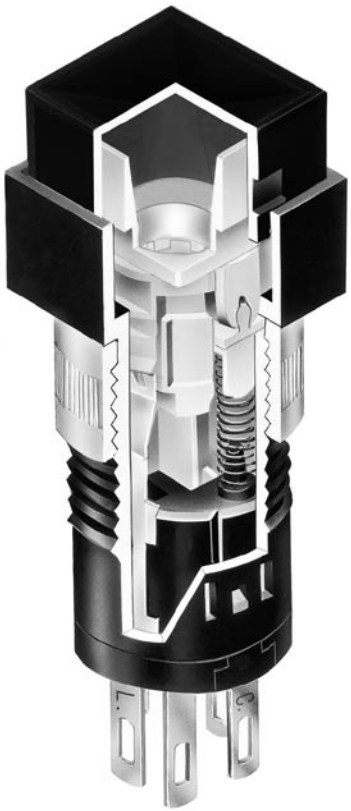
Solder lug terminals have spacing of .100" (2.54mm) for choice of mounting.

Longer normally closed terminal facilitates wiring and soldering.

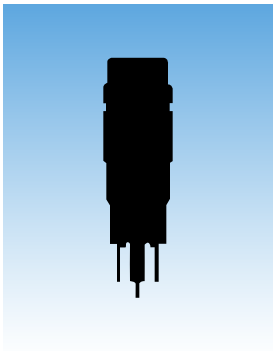
Molded-in terminals lock out flux, dust, and other contaminants.

Illuminated models available and shown in the Illuminated Pushbutton section.

Matching indicators available and shown at the end of Section M.



Actual Size



General Specifications

Electrical Capacity (Resistive Load)

Power Level (code W): 0.1A maximum @ 30V AC/DC

Other Ratings

Contact Resistance: 50 milliohms maximum
Insulation Resistance: 100 megohms minimum @ 500V DC
Dielectric Strength: 500V AC minimum for 1 minute minimum
Mechanical Life: 100,000 operations minimum
Electrical Life: 50,000 operations minimum
Nominal Operating Force: 3.43N
Contact Timing: Nonshorting (break before make)
Travel: Pretravel .087" (2.2mm); Overtravel .031" (0.8mm); Total Travel .118" (3.0mm)

Materials & Finishes

Housing: Glass fiber reinforced polyamide
Base: Glass fiber reinforced polyamide
Movable Contact: Phosphor bronze with silver plating
Stationary Contacts: Phosphor bronze with silver plating
Terminals: Phosphor bronze with silver plating

Environmental Data

Operating Temp Range: –25°C through +70°C (–13°F through +158°F)
Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Mounting Torque: 0.49Nm (4.34 lb•in) maximum for round mounting nut
Cap Installation Force: 9.8N (2.2 lbf) maximum downward force on cap
Soldering Time & Temperature: Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

UL & C-UL Recognized:
All models recognized at 0.1A @ 30V AC/DC;
UL File No. WOYR2.E44145;
add "/U" to end of part number to order UL mark on switch.
C-UL File No. WOYR8.E44145;
add "/C-UL" to end of part number to order C-UL mark on switch.

TYPICAL SWITCH ORDERING EXAMPLE

HB | 1 | 5 | S | K | W01 | – | A

POLE

1	SPDT

SHAPES

S	Square
C	Round

CONTACTS & TERMINALS

W01	Silver Contacts and Solder Lug Terminals 0.1A @ 30V AC/DC

CIRCUITS

5	ON	(ON)

( ) = Momentary

6	ON	ON

Alternate Action with Latchdown

HOUSING

K	Black only

CAP COLORS

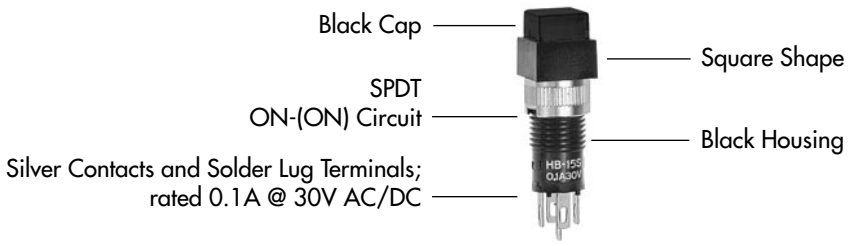
A	Black (Square only)
B	White
C	Red
E	Yellow
F	Green
G	Blue

IMPORTANT:

Switches are supplied without UL & C-UL markings unless specified. Specific models & ratings noted on General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

HB15SKW01-A



POLES & CIRCUITS

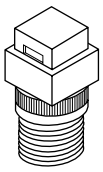
		Plunger Position ( ) = Momentary		Connected Terminals		Throw & Schematic
Pole	Model	Normal	Down	Normal	Down	Note: Switch is marked with NO, NC, C, L.
SP	HB15	ON	(ON)	1-3	1-2	SPDT
	*HB16	ON	ON			



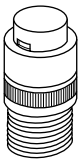
* When in latchdown position for the alternate circuit, cap position is .051" (1.3mm) above the built-in bezel.

SHAPES & PANEL CUTOUT

S **.354" (9.0mm) Square**

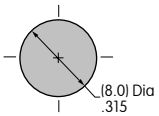


C **.354" (9.0mm) Round**



The bezel is an integral part of the switch body.

Recommended Panel Thickness: .020 ~ .197" (0.5 ~ 5.0mm)



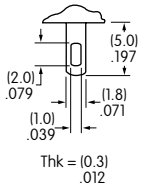
Socket wrench AT110 may be used for mounting. Overtightening the mounting nut AT073 may damage the switch housing.

HOUSING

K **Housing available in black only.**

CONTACT MATERIALS, RATINGS, & TERMINALS

W01 **Silver Contacts**



Power Level **0.1A maximum @ 30V AC/DC**

PCB Mounting

Solder lug terminals are spaced .100" x .200" (2.54mm x 5.08mm). This enables PCB mounting which can be accomplished by elongating PC board holes to .080" (2.03mm).

CAP TYPES & COLORS

Cap Colors Available:

A **Black** (Square only)

C **Red**

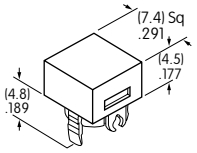
F **Green**

B **White**

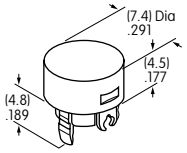
E **Yellow**

G **Blue**

AT4035 Square



AT4036 Round



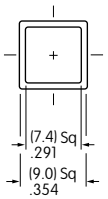
Material: Polycarbonate Finish: Glossy

TYPICAL SWITCH DIMENSIONS

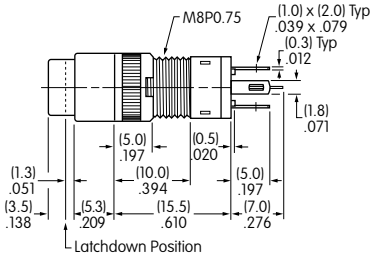
Square

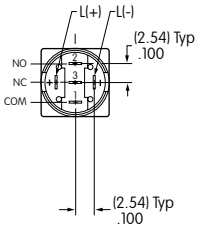


HB15SKW01-C



Single Pole

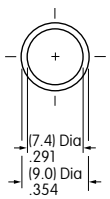




Round



HB16CKW01-C



Single Pole

