

6251 ~ Heavy Duty Footswitch



Benefits

- ❖ Average life expectancy 1x10⁶ operations
- ❖ Rugged high performing heavy duty footswitch
- ❖ Waterproof to IP67, IP68 upon request
- ❖ Choice of colours
- ❖ Distinctive styling
- ❖ Screw terminals and self-lifting clamp for connection of flexible leads 2 x 1.5mm² or wire up to 2 x 2.5mm²
- ❖ Available in your own livery for a small cost
- ❖ Competitively priced for OEM users

6251 - A - Z 0

1. Model Number

2. Cover and Guard Colours

- | | |
|------------------|------------------|
| A Cover - Yellow | B Guard - Yellow |
| C Cover - White | D Guard - White |
| E Cover - Blue | F Guard - Blue |
| G Cover - Orange | H Guard - Orange |
| M Cover - Red | L Guard - Red |

3. Base Colour

- | | | |
|---------|---------|---------------|
| A Black | B White | C Silver Grey |
|---------|---------|---------------|

4. Threading / Hole Information

- A Single Back Entry 20mm
- B Single Back Entry PG 13.5 Gland Thread
- C Double Side Entry 20mm Gland Thread
- D Double Side Entry PG 13.5 Gland Thread

5. Tread Colour

- A Black

6. Action - First letter denotes the action, second letter denotes the electrical rating in section 7 (please note the choice of action dictates the electrical rating)

- AA Momentary, Slow Make and Break
- BB Momentary, Snap Action Make and Break
- CB Alternate Action, Snap Action Make and Break
- DB Momentary, 2 Pole Snap Action Make and Break
- EA Momentary, 2 Pole Slow Make and Break
- F Double Pole, Double Action, V3 Single Break, Snap Action
- G Double Pole, Double Throw, V3 Single Break, Snap Action
- AH Momentary Slow Make and Break
- BJ Momentary Snap Action
- DJ Double Pole Momentary Snap Action

Note: For options F and G please select E, F or G below only

7. Electrical Rating

- A Slow Make and Break Ve 230 6A AC-15 Ve 500 10A AC-12
- B Snap Action Vi 230 6A AC-15 Vi 500 10A AC-12
- E V3 Silver Contacts C/Over (3 Off 6.3mm Amp Tags) 21A 250V ac
- F V3 Gold Contacts C/Over (3 Off 6.3mm Amp Tags) 0.1A 250V ac
- G V3 Silver Contacts C/Over (3 Off 6.3mm Amp Tags) 25A 250V ac
- H Slow Make and Break Ue (V) 230 3A AC-15
- J Snap Action Ue (V) 230 3A AC-15

8. Emergency Stop

- Z No Emergency stop fitted

Initial depression of the foot pedal causes both microswitch contacts to change state and further depression creates a resistance change in the potentiometer.

ELECTRICAL SWITCHES

Average Life Expectancy	Mechanical	1.0 x 10 ⁶ Operations		
	Electrical	2.0 x 10 ⁵ @ 10A	1.0 x 10 ⁵ @ 21A	
Max. Electrical Load				
	Voltage	Resistive	Inductive	Motor (Pf0.75)
AC	250V	21A	8A	2HP 1HP
	250V	21A		
	125V	21A		
DC	6V	21A	21A	
	12V	15A	15A	
	24V	8A	7A	
	60V	1A	0.5A	
	110V	0.5A	0.2A	
	220V	0.25A	0.1A	

POTENTIOMETER

Electrical Data	5.0k Ω	10.0k Ω
Resistance Tolerance	±20%	±20%
Linearity	±1.0%	±1.0%
Recommended Wiper Current	<0.1 μ A	<0.1 μ A
Power Rating	0.5W/40°C	0.5W/40°C
Max Wiper Fault Current	10mA	10mA
Max Potentiometer Rating	50V	70V
Dielectric Strength	1000V ac	1000V ac
Resistance	Conductive Plastic	
Mechanical Data		
Average Life Expectancy Cycles	5.0 x 10 ⁶	5.0 x 10 ⁶

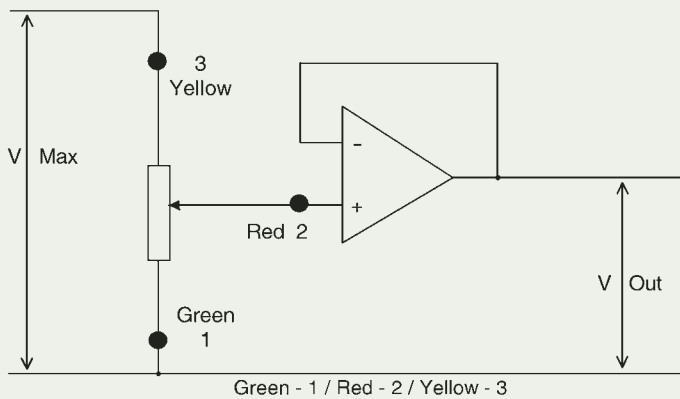
Microswitch Approvals: UL, CSA and ENEC

Microswitch Standards: EN 60730, EN 61058

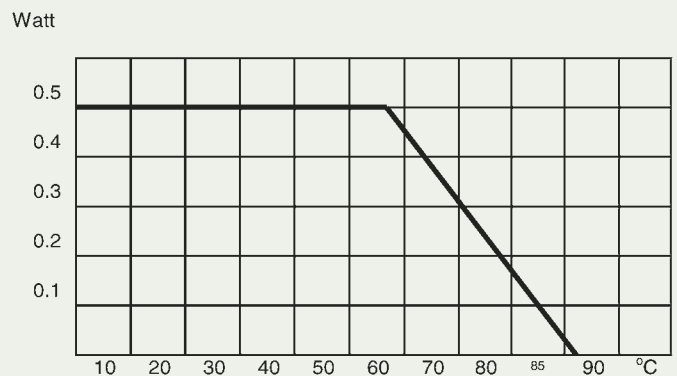
Notes: Dry Switching: If switching low power circuits i.e. low current (4 to 100 milliamperes) and low voltage (below 30V), please consult herga for advice

IP Rating: The electrical housing has an environmental rating of IP67 (IP68 upon request)

RECOMMENDED SCHEMATIC



DE-RATING CURVE



In all applications except where protective extra low voltage (PELV) circuits are being switched, an earth conductor must be installed. The earth conductor should be rated in accordance with the prevailing standards.

❖ Other potentiometer resistance values from 1K Ohm to 10K Ohm can be supplied in medium batch volumes, although these versions cannot be supplied with microswitch contacts.