

# 6251 Heavy Duty Footswitch

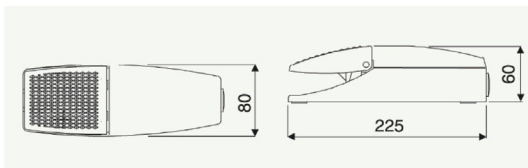
# herga

Technology Ltd

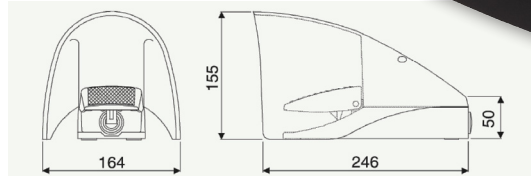
- Sturdy durable industrial footswitch
- Stylish ergonomic design
- Available in many different colors
- Customer colours and logos available on request
- Special designs according to customer specifications
- Cover with plenty of room for safety shoes
- Waterproof EN 60529 IP 67 (IP 68 on request)
- Coupling with self-lifting plates for cable to 2 x 2.5mm<sup>2</sup>
- Available ready with cable and connector



## Outline dimensions



Cover option



Guard option

## Ordering and options

6251- [ ] [ ] [ ] A - [ ] [ ] Z 0

### Model

#### 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

#### Base colour

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

#### Thread / hole information

A 1 x M20	- Single back entry
B 1 x PG13,5	- Single back entry
C 2 x M20	- Double side entry gland thread
D 2 x PG13,5	- Double side entry gland thread

#### Tread colour

A Black
---------

Action - First letter denotes the action, second letter denotes the electrical rating in the next section. (NB: the choice of action dictates the electrical rating)

AA	DPST Slow make & break
BB	DPST Snap action make & break
CB	DPST Latching snap action make & break
DB	4PST Snap action make & break
EA	4PST Slow make & break
F	SPCO + SPCO staggered snap action, single break, V3
G	DPCO snap action, single break V3
AH	DPST Slow make & break
BJ	DPST Snap action
DJ	4PST Snap action

Note: For options F & G, please select E, F or G from the next section

#### Electrical rating

A	Slow make & break 6A AC -15 230V, 10A AC -12 500V
B	Snap action 230 V 6A AC - 15 230V, 10A AC -12 500V
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 & break 3A AC - 15 230V
J	Snap action 6A AC - 15 - 230V

#### Emergency stop

Z	No emergency stop fitted
---	--------------------------



## General specifications

Standards/approvals	EN60204-1 with switching to meet EN60947-5-1, VDE 0660 pt 200, IEC 947-5-1	Operating temperature range	-25°C to +60°C
Degree of protection	EN 60529 IP67 (IP68 upon request)	Body material	Die cast aluminium
Connection method	Internal terminal block, cabled versions available upon request	Weight	Cover/unguarded 1Kg or 1.5Kg guarded
Electrical rating	See ordering & options	Average mechanical life	1 x 10 <sup>6</sup> operations
Contact configuration	See ordering & options	Additional information	The electrical housing has an environmental rating of IP67. To achieve this, a minimum torque of 1.7N should be applied to the two enclosure screws

## Switch specifications

	Options A&B in Electrical rating section				Options H&J in Electrical rating section			
<b>Rated operating voltage</b>	500V AC, over 380V AC same potential only							
<b>Rated operational current</b>	AC 40 - 60 Hz				DC			
	Le/AC-12 (A)	Ue (V)	Le/AC-15 (A)	Ue (V)	Le/DC-12 (A)	Le/DC-13 (A)	AC 50 - 60 Hz Ue (V)	Le/AC-15 (A)
	10	24	10	24	10	10	230	3
	10	125	10	48	6	4		
	10	230	6	110	4	1		
	10	400	4	220	1	0.4		
	10	500	3	440	0.5	0.2		
Limit switches also available with Gold contacts								
Note: When the footswitch is supplied with a pre-wired cordset, the cordset rating takes precedence over the footswitch rating. The rating will be marked on the cordset								
<b>Electrical Life Expectancy at Category AC-15</b>	0.5 X 10 <sup>6</sup> switching cycles when interrupting 6A AC-15 at 250V							
<b>Contact configuration</b>	Normally open + normally closed positive opening operation to EN 60947-5-1							
<b>Contact Gap</b>	>3mm, suitable for mains isolation							
<b>Terminals</b>	Screw terminals and self-lifting clamp for connection of flexible leads min. 2 x 1.5 mm <sup>2</sup> - max. 2 x 2.5 mm <sup>2</sup>				Screw terminals for connection of flexible lead wire min. 1 x 0.5 mm <sup>2</sup> - max. 2 x 2.5 mm <sup>2</sup>			
<b>Action Type from Order Code</b>	A		B		D		E	
<b>Limit switch action</b>	1 Pole Slow Make Slow Break		1 Pole Snap Action		2 Pole Snap Action		2 Pole Slow Make Slow Break	

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.

Microswitch standards: EN 60730, EN 61058  
Microswitch Approvals: ENEC, CSA, UL

### 21A microswitch

<b>Average life expectancy</b>	<b>Mechanical</b>	1.0 X 10 <sup>6</sup>		
	<b>Electrical</b>	2.0 X 10 <sup>5</sup> @ 10A		1.0 X 10 <sup>4</sup> @ 21A
Max. electrical load				
	<b>Voltage (V)</b>	<b>Resistive (A)</b>	<b>Inductive (A)</b>	<b>Motor (Pf0.75)</b>
<b>AC</b>	250V	21A		2HP
	250V	21A		1HP
	125V	21A	8A	
<b>DC</b>	6V	21A	21A	
	12V	15A	15A	
	24V	8A	7A	
	60V	1A	0.5A	
	110V	0.5A	0.2A	
	220V	0.25A	0.1A	

### 25A microswitch

<b>Average life expectancy</b>	<b>Mechanical</b>	1.0 X 10 <sup>6</sup>		
	<b>Electrical</b>	1.0 X 10 <sup>5</sup> @ 1.0A		
Max. electrical load				
	<b>Voltage</b>	<b>Resistive (A)</b>	<b>Inductive (A)</b>	<b>Motor (Pf0.75)</b>
<b>AC</b>	250V	25A		2HP
	250V	25A		2HP
<b>UL/CSA</b>	125V	25A		1HP

### Gold contact microswitch

<b>Average life expectancy</b>	<b>Mechanical</b>	1.0 X 10 <sup>6</sup>		
	<b>Electrical</b>	2.0 X 10 <sup>5</sup> @ 0.1A		
Max. electrical load				
	<b>Voltage</b>	<b>Resistive (A)</b>	<b>Inductive (A)</b>	<b>Motor (Pf0.75)</b>
<b>AC UL/CSA</b>	250V	0.1A	0.05	N/A
	125V	0.1A		
<b>Note</b>	Dry Switching: These switches must be used for low power circuits i.e. low current (4 to 100 mill amperes) and low voltage (below 30V), consult herga for further advice.			