

Key actuation safety switches



5 way key actuation safety switches

The **5 way key** actuated safety switches are used on gates, sliding doors and other devices to protect the access to dangerous parts of machines. The key is applied to the moving protection barrier so it has to be removed from the switch on every opening thus operating a positive opening of the NC contact.

This kind of actuator is available on the **E100-E200** series with thermoplastic or metal body and thermoplastic head, with **IP66** protection degree.

Safety for the operator

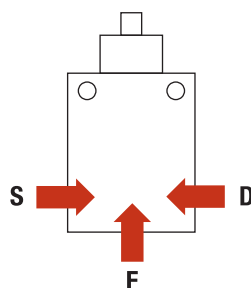
The command circuit authorizing the start-up of the process is closed only by the complete insertion of the safety key, and the circuit is opened when this is removed. This prevents intentional tampering with the machine by the operator until the safety protection device is opened.

Resistance to vibrations

The device has been designed to permit limited key vibrations in case of mechanical disturbances.

In conformity with standards:

IEC EN 60947-5-1 • EN 60947-1 • UNI EN 1088
EN ISO 12100-1 • EN ISO 12100-2 • IEC 529
EN 60529 • VDE 0660-200 • VDE 0113 • UNI EN 13850



Cable entry

	F	S	D
E100	•		
E200		•	•
E300	•	•	•
E400	•		

Thread

	Series part no.	
Pg 13,5	E100	E200
M20x1,5	E101	E201
1/2" NPT (on request)	E102	E202
Pg 11 (on request)	E103	
M16x1,5 (on request)	E104	
M12 connector (on request)	E100/M12	E200/M12

Fixing

E100	20/22 mm
E200	20/22 and 40/42 mm

Applications:

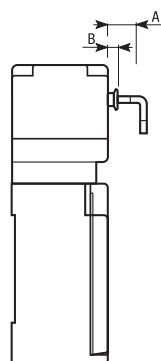


Machines with safety barriers

Instructions for correct installation

Assembly of the driver on a rotating protective device (allow space for the pivot radius).

Key type	Horizontal mouting	Vertical mounting
<p>Z5 Z5-1 Z5-3 Z5-4</p>		
<p>Z52</p>		



Recommended position for correct operation:

- A (contact switching point) = 4 mm
- B (actuator limit switch point) = 0 ÷ 1 mm max

The contacts remain closed from point A to point B (4 mm max travel)

Never use the safety switch as a mechanical travel stop

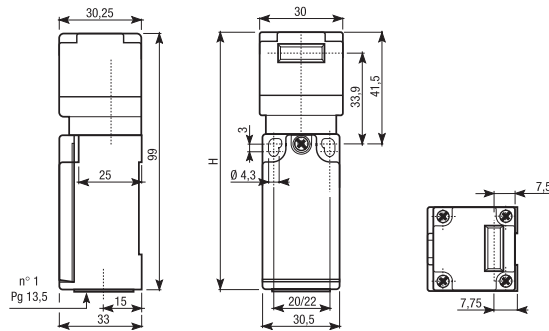


E100 5 way key

Contact element		
1NO+1NC slow action		01
2NC slow action		04
Weight	kg	
Pack	pcs	
H	mm	

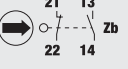
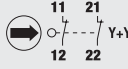
standard article

Cable entry		
PG 13,5	M20 x 1,5	
Plastic head Plastic body	Plastic head Plastic body	Contact travel
E10001S5I	E10101S5I	
E10004S5I	E10104S5I	
0,115	0,115	
1	1	
99	99	

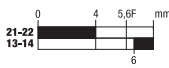
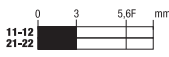




E200 5 way key

Contact element	
1NO+1NC slow action 	01
2NC slow action 	04
Weight	kg
Pack	pcs

 standard article

Cable entry		Contact travel
PG 13,5	M20 x 1,5	
Plastic head Plastic body	Plastic head Plastic body	
E20001S5I	E20101S5I	
E20004S5I	E20104S5I	
E20004S5I	E20104S5I	
0,14	0,14	
1	1	

