

Overview

PERSONAL SAFETY

The command circuit that authorises 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.

OPERATING SAFETY

Designed to lock the safety device when closed, when the key is inserted in the switch the multiple block device is activated and the NC contact can be closed.

SAFETY IN USE

The device has been designed to permit limited key vibration to make it relatively insensitive to mechanical disturbances.

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5 WAY KEY SWITCHES



● 5 WAY COMMAND KEYS



B10

Overview

The **E802 series electromagnetic lock/release 5-way key safety switches** are used in the protection barriers of machines **with inertia** movement (machines whose stoppage time is greater than the access time to the action zone), which require controlled opening of the protection systems.

The switches are in accordance with the EN292, EN294, EN60204, EN1088 and EN945-1 safety standards.

The range is available in metal and thermoplastic versions, both with five types of contact element, each of which is associated with three types of coil, depending on the operating voltage.

E802...S5 - E802...S5/B

SPRING LOCK DESIGN (E802...S5 and E802...S5/B)

The spring lock holding mechanism operates on the **rest current** principle. When the power supply voltage of the electromagnet is cut off, it is not possible to open the safety barrier directly. This means that once the key has been inserted it is locked in place by elastic force and can be removed only by supplying power to the magnet or rotating the auxiliary release device.

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Dual insulation plastic



E102 - 5 way with Z5 key

Code	Model	Description	Type	Travel diagram	Weight
EN840010	E102 01 S5I	1NO+1NC Slow action	01		0,100
EN840020	E102 04 S5I	2NC Slow action	04		0,100

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E202 - 5 way with Z5 key

Code	Model	Description	Type	Travel diagram	Weight
EN840030	E202 01 S5I	1NO+1NC Slow action	01		0,105
EN840040	E202 04 S5I	2NC Slow action	04		0,105

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Accessories

5 way – command keys – E102...E402



Code	Model	Description	Weight
ER840130	Z5	Angle key with fixing perpendicular to the drive direction, supplied as series	0,100



Code	Model	Description	Weight
ER840140	Z5-1	Straight key for straight line shift	0,100



Code	Model	Description	Weight
ER840150	Z5-2	Hinged key with screw for key angle regulation	0,150



Code	Model	Description	Weight
ER844510	Z5-3	Long straight key for straight line shift	0,200



Code	Model	Description	Weight
ER844500	Z5-4	Long angle key with fixing perpendicular to the drive direction	0,200

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Dual insulation plastic

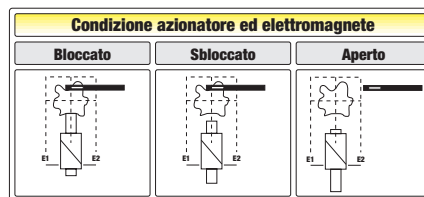


5 way with electromagnetic release

Driver locked mechanically. Can be removed electrically by supplying power to the electromagnet or rotating the auxiliary release device.

Code	Model	Description	Type	Contact release		Electrom.	Weight
				Locked	position Open		
EN842600	E802 10 24 S5I/B	1NO+1NC	10			24 V DC	0,375
EN842610	E802 10 110 S5I/B	Slow action				110 V AC	0,375
EN842620	E802 10 230 S5I/B					230 V AC	0,375

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Locked: electromagnet de-energised, key in
 Released: electromagnet excited, key in
 Open: electromagnet excited, key out

Accessories

5 way – command keys – E802



Code	Model	Description	Weight
ER840150	Z5-2	Hinged key with screw for key angle regulation 0,150	



Code	Model	Description	Weight
ER844510	Z5-3	Long straight key for straight line shift	0,200



Code	Model	Description	Weight
ER844500	Z5-4	Long angle key with fixing perpendicular to the drive direction	0,200

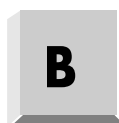
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5 way – Examples of installation

Installing the key driver

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

Type of key	Horizontal mounting	Vertical mounting
Z5 Z5-1 Z5-3 Z5-4		
Z52		
NFC		Assembly Never use the safety switch as a mechanical travel stop. Recommended positioning for correct operation A (contact switching point) = 4 mm B (driver limit switch point) = 0 to 1 mm max The contacts remain closed from point A to point B (4 mm max travel)



5 way – Examples of installation

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Z5-3 Z5-4		
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