

SAFETY PRODUCTS

MKEY 6 Series Safety Switch

Data Sheet

MKey 6 is a mechanical safety switch used for monitoring doors and hatches.

The switch is mounted on the frame and the actuator key on the moving part of the guard.

Option for a stainless steel head is also available.





Easy to install

Variety of actuators

Many types of actuators available depending on application.

Easy mounting

Rotating head allows for up to 8 actuating positions allowing for many mounting posibilities.



Continuous operation

Protect against unwanted stops

"Double wide seal gaskets" enables switches to keep its IP rating for the life of the switch.

Long Mechanical Life

Cam system in switches all rotate the same direction reducing wear giving long mechanical life and good tolerance to misalignment.



Optimum Interface

Small Design

Small footprint makes it easy to install in restricted space.

Industry Footprint

Standard industry footprint for smaller mechanical switches and ½ NPT conduit entry.

2024-08-21 1/3

Ordering Information

Description	Material Housing	Material Head	Туре	Order code
MKEY 6, ½ NPT, No Key	Die Cast	Die Cast	MKEY 6	2TLA050005R1030
MKEY 6 ½ NPT, Standard Key	Die Cast	Die Cast	MKEY 6	2TLA050005R1130
MKEY 6, ½ NPT, Flat Key	Die Cast	Die Cast	MKEY 6	2TLA050005R1230
MKEY 6, ½ NPT, Plastic Flex Key	Die Cast	Die Cast	MKEY 6	2TLA050005R1330
MKEY 6, ½ NPT, Metal Flex Key	Die Cast	Die Cast	MKEY 6	2TLA050005R1430
MKEY 6, ½ NPT, SS Flex Key	Die Cast	Die Cast	MKEY 6	2TLA050005R1530
MKEY 6+, ½ NPT, No Key, 40N	Die Cast	Die Cast	MKEY 6+	2TLA050005R1031
MKEY 6+ ½ NPT, Standard Key, 40N	Die Cast	Die Cast	MKEY 6+	2TLA050005R1131
MKEY 6+, ½ NPT, Flat Key, 40N	Die Cast	Die Cast	MKEY 6+	2TLA050005R1231
MKEY 6+, ½ NPT, Plastic Flex Key, 40N	Die Cast	Die Cast	MKEY 6+	2TLA050005R1331
MKEY 6+, ½ NPT, Metal Flex Key, 40N	Die Cast	Die Cast	MKEY 6+	2TLA050005R1431
MKEY 6+, ½ NPT, SS Flex Key, 40N	Die Cast	Die Cast	MKEY 6+	2TLA050005R1531
MKEY 6 ½ NPT, No Key	Die Cast	Stainless Steel	MKEY 6	2TLA050005R1040
MKEY 6 ½ NPT, Standard Key	Die Cast	Stainless Steel	MKEY 6	2TLA050005R1140
MKEY 6, ½ NPT, Flat Key	Die Cast	Stainless Steel	MKEY 6	2TLA050005R1240
MKEY 6, ½ NPT, Plastic Flex Key	Die Cast	Stainless Steel	MKEY 6	2TLA050005R1340
MKEY 6, ½ NPT, Metal Flex Key	Die Cast	Stainless Steel	MKEY 6	2TLA050005R1440
MKEY 6, ½ NPT, SS Flex Key	Die Cast	Stainless Steel	MKEY 6	2TLA050005R1540
MKEY 6+, ½ NPT, No Key, 40N	Die Cast	Stainless Steel	MKEY 6+	2TLA050005R1041
MKEY 6+ ½ NPT, Standard Key, 40N	Die Cast	Stainless Steel	MKEY 6+	2TLA050005R1141
MKEY 6+, ½ NPT, Flat Key, 40N	Die Cast	Stainless Steel	MKEY 6+	2TLA050005R1241
MKEY 6+, ½ NPT, Plastic Flex Key, 40N	Die Cast	Stainless Steel	MKEY 6+	2TLA050005R1341
MKEY 6+, ½ NPT, Metal Flex Key, 40N	Die Cast	Stainless Steel	MKEY 6+	2TLA050005R1441
MKEY 6+, ½ NPT, SS Flex Key, 40N	Die Cast	Stainless Steel	MKEY 6+	2TLA050005R1541

Accessories

Description	Material Housing	Order code
Standard Key	Stainless Steel	2TLA050040R0202
Flex Key with metal housing	Stainless Steel	2TLA050040R0203
Flex Key with stainless steel housing	Stainless Steel	2TLA050040R0204
Flat Key	Stainless Steel	2TLA050040R0220
½ NPT Cable Gland	Stainless Steel	2TLA050040R0001

Technical Data

Manufacturer			
Address	ABB Electrification Sweden AB / JOKAB SAFETY		
	Varlabergsvägen 11		
	SE-434 39 Kungsbacka		
	Sweden		
Electrical characteristics			
Utilization category	AC-15 A300 3A		
Thermal current	10A		
Rated insulation/withstand voltages	600 VAC/2500 VAC		
Overload protection fuse (fuse externally)	10A (FF)		
Contacts	2NC + 1NO		
General			
Actuator Travel/Force for Positive Opening	6 mm/12N		
Actuator entry minimum radius	175 mm Standard Key		
•	100 mm Flexible Key		
Protection class	IP67		
Ambient temperature	-25+80°C		
Size	118mm(length) x 40mm(width) x 43.5mm(height)		
Conduit entries	½ NPT		
Material	Die Cast Metal		
Fixing	Body: 2 x M4		
Maximum approach / withdrawal speed	600 mm/s		
Holding Force	MKEY 6: 12N		
gg	MKEY 6+: 40N		
Vibration	IEC 68-2-6, 10-55 Hz+1 Hz,		
	Excursion: 0.35 mm, 1 octave/min		
Safety-related characteristic data and Conformity	· · · · ·		
Conformity	ISO14119, IEC60947-5-1, EN60204-1		
	ISO 13849-1, UL60947-5-1		
	•		
EN ISO 13849-1	Up to PL e, Cat. 4 depending on system architecture		
EN 62061	Up to SIL3 depending on system architecture		
Safety data			
B10d	2,500,000 operations at 100 mA load		
MTTFd	356 years (8 cycles per hour / 24 hours per day / 365 days		
	per year)		
Certifications	TÜV, cULus		
Information with regard to UL 508	Type 1 Enclosures.		
	Use 16 - 12AWG stranded copper insulated conductors		
	rated 90°C minimum. (75C. ampacity).		
	Terminal tightening torque 7ibs ins (0.8Nm).		
	Intended for same polarity use and one polymeric conduition.		
	Not suitable for connection to a rigid metal conduit sys-		
	Not suitable for connection to a rigid metal conduit system.		
	Not suitable for connection to a rigid metal conduit system. Electrical Rating: Pilot Duty A300 240V.ac 3A. 6,000 cycles		
	Not suitable for connection to a rigid metal conduit system.		

NOTE: A single switch can achieve PL c, category 1, according to EN ISO 13849-1 if used correctly with a safety controller. If a fault exclusion is applied according to EN ISO 14119, it is possible to reach PL d, category 3, with e.g. the Slide Lock combined with the MKey switch.

A single switch combined with a second interlocking switch, can reach PL e, category 4, if a fault exclusion is applied meeting the requirements of EN ISO 14119 and EN ISO 13849-1.

ABB Inc.
305 Gregson Drive
Cary, North Carolina 27511
United States
electrification.us.abb.com/
products/machine-motor-control

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG. Copyright® 2022 ABB
All rights reserved