

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.

2022-08-28 1/3

Ordering Information

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

 ${\sf NOTE: Anything \ in \ bold \ is \ typically \ stocked.}$

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
1/2 NPT Cable Gland	Stainless Steel	2TLA050040R0001

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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	See manual		
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		
	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	op to sies depending on system architecture		
B10d	2500000		
MTTFd	2,500,000 operations at 100 mA load		
MITFU	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.		
illiornation with regard to 01 508	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 condui connection.		
	Not suitable for connection to a rigid metal conduit sys-		
	tem.		
	tem. Electrical Rating: Pilot Duty A300 240V.ac 3A. 6,000 cycles		
	Maximum ambient temperature 80°C.		
	(Earth bonding terminal inside enclosure if required – use		

NOTE: A single MKey6 can achieve performance level PL c according to EN ISO 13849 if used correctly with an ABB Jokab Safety safety relay, Pluto safety-PLC or Vital safety module. If two MKey6-switches are used for the same safety function, a performance level up to PL e can be achieved. Refer to EN ISO 13849 for details on how to achieve this if necessary.

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Cary, North Carolina 27511
United States
electrification.us.abb.com/
products/machine-motor-control

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