

MICROMECC Keylock switches, IP54

Technical Data

→ General information

Color	see order block
Form of collar	square

→ Dimensions

Length of collar	19 mm
Width of collar	19 mm
Overall height	19.5 mm

→ Mechanical design

Mounting	soldering
Terminals	tin-plated
Contact system	cross contact self cleaning
Contact function	see order block
Contact materials	Au alloy
Illuminability	no
Lock	Micromec
Wafers	5
Lock type	001
Number of locking positions	500
Main key	on request
Key removal position	see order block

→ Mechanical characteristics

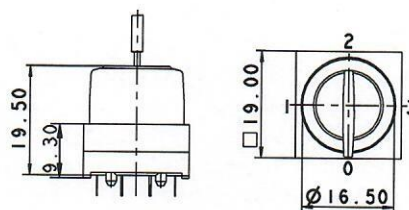
Switching torque	0.04 ... 0.10 Nm
Robustness max.	2 Nm
Dielectric strength AC min.	500 V
Rated power max.	1 W

→ Electrical characteristics

Rated voltage	2 ... 35 V
Rated current max.	100 mA
Contact resistance when new max.	100 mΩ
Contact resistance acc. to life max.	200 mΩ
Insulation resistance	10 ⁹ Ω
ESD strength max.	8 kV

→ Other specifications

Rotating angle	see order block
Operating life	10,000
Degree of protection from front side	IP54
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
Flammability of materials	UL 94 HB
ROHS compliant	yes
REACH compliant	yes



Accessories MICROMECC - Keylock switch IP54

→ Description	Photo	Order no.	Additional accessories see page
O-ring for keylock switch		5.30.120.015/0100	5 - 31

PCB KEY SWITCHES

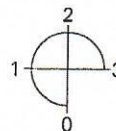
MICROMECC - KEYLOCK SWITCHES IP 54

– Table (continued) –

Accessories MICROMECC - Keylock switch IP54

→ Description	Photo	Order no.	Additional accessories see page
Spare key, (delivery content 1 key)		5.58.007.001/0000	-
Spare key, for double action, e.g. 2 x 90° (delivery content 1 key)		5.58.008.001/0000	-
Spare key for 3 angles, f.ex. 3 x 90° degree (content 1 key)		5.58.009.001/0100	-
Spare key for 4 angles, f.ex. 4 x 90 degrees, (content 1 key)		5.58.010.001/0100	-

MICROMECC - KEYLOCK SWITCHES IP 54



Technical drawing of a hole view of a part. The drawing shows a cross-section of a part with a central hole. The dimensions and tolerances are as follows:

- Top horizontal dimension: 8.89
- Top left diagonal dimension: 2.00 ± 0.05
- Top right diagonal dimension: 1.4 ± 0.05
- Left vertical dimension: 8.89
- Bottom left vertical dimension: 5.08
- Bottom left horizontal dimension: 13.97
- Bottom right diagonal dimension: 7.0 ± 0.05
- Right vertical dimension: 13.97
- Central hole diameter: $\varnothing 1.4 \pm 0.05$

Hole patterns PCB
View on component side

Switching position	Contact function
0	
1	
2	
3	

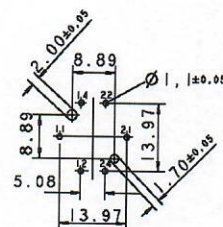
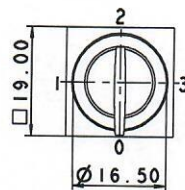
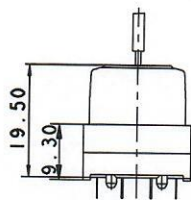
PCB KEY SWITCHES

MICROMECC - KEYLOCK SWITCHES IP 54



MICROMECC Keylock switch IP54

Technical data see page 4 - 173



PCB hole pattern, component side

→ Contact function	Color	Rotating angle	Key removal position	Order no.
momentary	charcoal grey	1 x 40°	0	3.13.026.041/0000
momentary	light grey	1 x 40°	0	3.13.026.541/0000
latching	charcoal grey	1 x 90°	0	3.13.026.001/0000
latching	light grey	1 x 90°	0	3.13.026.501/0000
latching	charcoal grey	1 x 90°	0+1	3.13.026.006/0000
latching	light grey	1 x 90°	0+1	3.13.026.506/0000
latching	charcoal grey	3 x 90°	0	3.13.026.021/0000
latching	light grey	3 x 90°	0	3.13.026.521/0000
latching	charcoal grey	3 x 90°	0+1+2+3	3.13.026.026/0000
latching	light grey	3 x 90°	0+1+2+3	3.13.026.526/0000
latching	charcoal grey	4 x 90° without stop	0	3.13.026.031/0000
latching	light grey	4 x 90° without stop	0	3.13.026.531/0000
latching	charcoal grey	4 x 90° without stop	0+1+2+3	3.13.026.036/0000
latching	light grey	4 x 90° without stop	0+1+2+3	3.13.026.536/0000
latching	charcoal grey	2 x 90°	0	3.13.026.011/0000
latching	light grey	2 x 90°	0	3.13.026.511/0000
latching	charcoal grey	2 x 90°	0+1+2	3.13.026.016/0000
latching	light grey	2 x 90°	0+1+2	3.13.026.516/0000
latching	charcoal grey	2 x 90°	0	3.13.026.601/0000
latching	light grey	2 x 90°	0	3.13.026.851/0000
latching	charcoal grey	2 x 90°	0+1+3	3.13.026.606/0000
latching	light grey	2 x 90°	0+1+3	3.13.026.856/0000

2 keys included.

Other lock variants available on request.

PCB KEY SWITCHES

EUROLOCKS - KEYLOCK SWITCHES IP 54

EUROLOCKS Keylock switches, IP54

Technical Data

→ General information

Color	see order block
Form of collar	square

→ Dimensions

Length of collar	19 mm
Width of collar	19 mm
Overall height	19.5 mm

→ Mechanical design

Mounting	soldering
Terminals	tin-plated
Contact system	cross contact self cleaning
Contact function	latching
Contact materials	Au alloy
Illuminability	no
Lock	Eurolocks
Wafers	5
Lock type	801
Number of locking positions	50
Main key	no
Symmetric key	yes
Key removal position	see order block

→ Mechanical characteristics

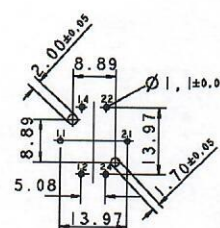
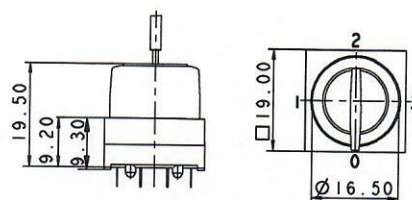
Switching torque	0.04 ... 0.10 Nm
Robustness max.	2 Nm
Dielectric strength AC min.	500 V
Rated power max.	1 W

→ Electrical characteristics

Rated voltage	2 ... 35 V
Rated current max.	100 mA
Contact resistance when new max.	100 mΩ
Contact resistance acc. to life max.	200 mΩ
Insulation resistance	$10^9 \Omega$
ESD strength max.	8 kV

→ Other specifications

Rotating angle	see order block
Operating life	10,000
Degree of protection from front side	IP54
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
Flammability of materials	UL 94 HB
ROHS compliant	yes
REACH compliant	yes



PCB hole pattern, component side

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Accessories EUROLOCKS - Keylock switch IP54

→ Description	Photo	Order no.	Additional accessories see page
O-ring for keylock switch		5.30.120.015/0100	5 - 31

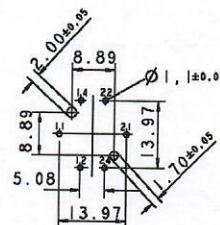
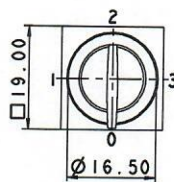
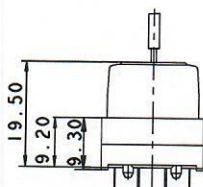
Key
Switches

EUROLOCKS - KEYLOCK SWITCHES IP 54

Accessories EUROLOCKS - Keylock switch IP54



Technical data see page 4 - 177



PCB hole pattern, component side

→ Contact function	Color	Rotating angle	Key removal position	Order no.
latching	charcoal grey	1 x 90°	0	3.13.009.001/0000
latching	light grey	1 x 90°	0	3.13.009.006/0000
latching	charcoal grey	1 x 90°	0+1	3.13.009.031/0000
latching	light grey	1 x 90°	0+1	3.13.009.036/0000

For the switching arrangement, refer to Micromec keylock switch IP54.

PRIORITY KEYLOCK SWITCHES, IP54

- Either 2 or 3 different keys are required, depending on the angle between positions. Key 1 can switch to position 1, key 2 can switch to position 1 and 2, etc.

Technical Data

→ General information

Color	see order block
Form of collar	square

→ Dimensions

Length of collar	19 mm
Width of collar	19 mm
Overall height	19.5 mm

→ Mechanical design

Mounting	soldering
Terminals	tin-plated
Contact system	cross contact self cleaning
Contact function	see order block
Contact materials	Au alloy
Illuminability	no
Lock	Micromec
Wafers	5
Lock type	001
Number of locking positions	500
Main key	on request
Key removal position	see order block

→ Mechanical characteristics

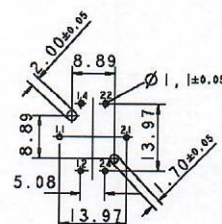
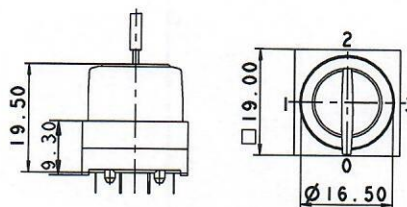
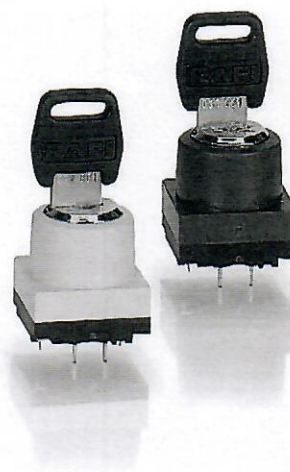
Switching torque	0.04 ... 0.10 Nm
Robustness max.	2 Nm
Dielectric strength AC min.	500 V
Rated power max.	1 W

→ Electrical characteristics

Rated voltage	2 ... 35 V
Rated current max.	100 mA
Contact resistance when new max.	100 mΩ
Contact resistance acc. to life max.	200 mΩ
Insulation resistance	10 ⁹ Ω
ESD strength max.	8 kV

→ Other specifications

Rotating angle	see order block
Operating life	10,000
Degree of protection from front side	IP54
Ambient temp. operating min.	-25 °C
Ambient temp. operating max.	+70 °C
Storage temperature min.	-40 °C
Storage temperature max.	+80 °C
Environmental resistance	acc. to IEC 60068-2-14, -30, -33 and -78
Flammability of materials	UL 94 HB
ROHS compliant	yes
REACH compliant	yes



PCB hole pattern, component side

PCB KEY SWITCHES

PRIORITY KEYLOCK SWITCHES IP 54

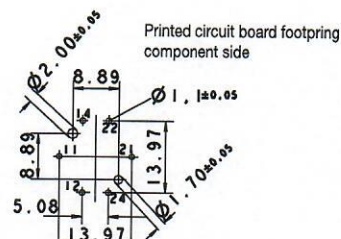
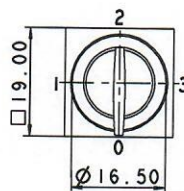
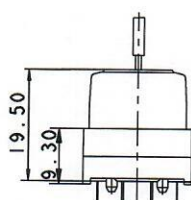
Accessories Priority keylock switch IP54

→ Description	Photo	Order no.	Additional accessories see page
O-ring for keylock switch		5.30.120.015/0100	5 - 31
Set of keys for 2 x 90° type (2 keys)		5.58.099.012/0000	-
Set of keys for 3 x 90° type (3 keys)		5.58.099.013/0000	-



Priority keylock switch IP54

Technical data see page 4 - 179



PCB hole pattern, component side

→ Contact function	Color	Rotating angle	Key removal position	Order no.
latching	charcoal grey	3 x 90°	0	3.13.027.011/0000
latching	light grey	3 x 90°	0	3.13.027.511/0000
latching	charcoal grey	3 x 90°	0+1+2+3	3.13.027.016/0000
latching	light grey	3 x 90°	0+1+2+3	3.13.027.516/0000
latching	charcoal grey	2 x 90°	0	3.13.027.001/0000
latching	light grey	2 x 90°	0	3.13.027.501/0000
latching	charcoal grey	2 x 90°	0+1+2	3.13.027.006/0000
latching	light grey	2 x 90°	0+1+2	3.13.027.506/0000

2 sets of keys included.

Other lock variants available on request.

For the switching arrangement, see IP54 Micromec keylock switch.

Either 2 or 3 different keys are required, depending on the angle between positions. Key 1 can switch to position 1, key 2 can switch to position 1 and 2, etc.