Datasheet - SVE1/xxx-3OE-24VDC

Key transfer system / SVE - Key selector switch - Interlocking equipment

SCHMERSAL

- Thermoplastic enclosure
- Protection class IP65

(Minor differences between the printed image and the original product may exist!)

Ordering details

Product type description	SVE1/xxx-3OE-24VDC
Article number	SVE1/xxx-3OE-24VDC
EAN Code	
notice	In the order/inquiry the requested lock number "xxx" must be specified (e.g. SVE1/115-3OE-24VDC)! If no lock number is indicated in the order/inquiry, we will supply a lock number at our discretion. The user must ensure that lock numbers are not assigned twice in a single plant (factory site)! The user must ensure that no double key bit numbers are allocated on one site (company site)!
eCl@ss	27-27-26-03

Classification

Standards	EN ISO 13849-1
B10d Normally-closed contact (NC)	100.000
Mission time	20 Years
notice	

$$MTTF_d = \frac{B_{10d}}{0{,}1 \times n_{op}}$$

$$n_{op} = \frac{d_{op} \times h_{op} \times 3600 \text{ s/h}}{t_{cycle}}$$

Global Properties

Permanent light	Schlüssel-Wahlschalter
Standards	IEC/EN 60947-1, IEC 60947-5-1, EN 1088
Compliance with the Directives (Y/N) CE	Yes
Number of key selector switch	1
Active principle	electromechanical
Duty cycle	Magnet 100

Materials	
- Material of the housings	Plastic, glass-fibre reinforced thermoplastic, self-extinguishing
- Material of the contacts	Silver
Housing coating	None
Enclosure color	Black / Silver
Color	
- Colour of the key grip	⬜ Silver
- Colour of the key	⬜ Silver
Weight	750
Key number	xxx
Key selector switch position	centered
Locking system	Included in standard version

Mechanical data

Connection type	Screw connection
Cable section	
- Min. Cable section	0,25
- Max. Cable section	2.5
Mechanical life	100.000 operations
notice	All indications about the cable section are including the conductor ferrules.
Emergency unlocking device (Y/N)	No
Manual release (Y/N)	Yes
Emergency release (Y/N)	No

Ambient conditions

Ambient temperature	
- Min. environmental temperature	0
- Max. environmental temperature	+50
Protection class	IP65 / IP20 to IEC/EN 60529

Electrical data

Design of control element	Normally open contact (NO), Opener (NC)
Switching principle	Creep circuit element
Number of auxiliary contacts	2
Number of safety contacts	3
Power to unlock	Yes
Power to lock	No
Rated control voltage	24
Power consumption	8.5
Rated impulse withstand voltage	2.5
Rated insulation voltage	250
Thermal test current	4 A
Utilisation category	AC-15: 230 V / 4 A, DC-13: 24 V / 4 A
Max. fuse rating	4 A gG D-fuse To DIN EN 60269-1
notice	NC contacts in series

ATEX

Explosion protection categories for gases	None
Explosion protected category for dusts	None

Dimensions

Dimensions of the sensor
- Width of sensor	96
- Height of sensor	169
- Length of sensor	144

Included in delivery

Key and triangular tool included in delivery (incl. 1 key for emergencies)

notice - Operating principle

see drawing: **Operating principle**

Key 1-3 in Pos. 1, magnet de-energised: key-operated switch locked, NC contacts closed, key not withdrawable
Key 1-3 in Pos. 1, magnet energised NC contact open: key-operated switch unlocked, NC contacts closed, key not withdrawable
Key 1-3 in Pos. 2, magnet energised NC contact open: key-operated switch unlocked, NC contacts open, key withdrawable

Triangular tool for manual release in Pos. 3: key-operated switch mechanically locked, magnet non-operational, NC contact open
Triangular tool for manual release in Pos.4: magnet operational

Ordering code

SVE**(1)(2)(3)**/**(4)(5)(6)**-**(7)**

notice	**Not all variations can be supplied.** **The available order code used to convert the product part name.**
(1)	
1	1 Key selector switch
2	2 Key selector switch
3	3 Key selector switch
(2)	
without	Included in standard version Locking system
-Z/	Central locking system-Locking system
(3)	
without	Included in standard version Silver
SR/	
(4)	
xxx	Key number (n) 100 … 999
(5)	
oo/oo	Colour of the key grip
	■ (BR)
	■ (GB)
	■ (RT)
	■ (BL)
	☐ (WS)
	■ (GR)
	■ (GN)
	■ (SW)
	and all combinations resulting thereof
(6)	
without	Magnet: 1 Opener (NC) / 1 Normally open contact (NO) Key selector switch: 1 Opener (NC) / 1 Normally open contact (NO)
-3OE	Magnet: 1 Opener (NC) / 1 Normally open contact (NO)

	Key selector switch 2 Opener (NC) / 1 Normally open contact (NO)
-W	Magnet: 1 Opener (NC) / 1 Normally open contact (NO)
	Key selector switch 2 Opener (NC) / 1 Normally open contact (NO)

(7)

24VDC	U_s 24 VDC
24VAC	U_s 24 VAC
115VAC	U_s 115 VAC
230VAC	U_s 230 VAC

Documents

Operating instructions and Declaration of conformity (da) 2 MB, 25.09.2015
Code: mrl_shgv-sve-svm_da

Operating instructions and Declaration of conformity (es) 2 MB, 22.08.2016
Code: mrl_shgv-sve-svm_es

Operating instructions and Declaration of conformity (jp) 2 MB, 23.03.2017
Code: mrl_shgv-sve-svm_jp

Operating instructions and Declaration of conformity (de) 2 MB, 25.07.2016
Code: mrl_shgv-sve-svm_de

Operating instructions and Declaration of conformity (fr) 2 MB, 16.09.2016
Code: mrl_shgv-sve-svm_fr

Operating instructions and Declaration of conformity (nl) 2 MB, 08.08.2018
Code: mrl_shgv-sve-svm_nl

Operating instructions and Declaration of conformity (en) 2 MB, 25.07.2016
Code: mrl_shgv-sve-svm_en

Operating instructions and Declaration of conformity (pt) 2 MB, 23.08.2016
Code: mrl_shgv-sve-svm_pt

Operating instructions and Declaration of conformity (cn) 2 MB, 27.07.2017
Code: mrl_shgv-sve-svm_cn

Operating instructions and Declaration of conformity (pl) 2 MB, 22.11.2016
Code: mrl_shgv-sve-svm_pl

Operating instructions and Declaration of conformity (it) 2 MB, 02.09.2016
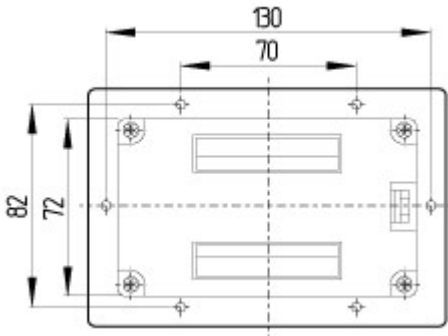Code: mrl_shgv-sve-svm_it

CCC certification (cn) 2 MB, 29.10.2018
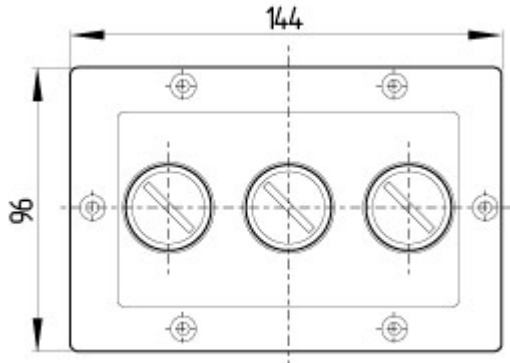Code: q_svep03

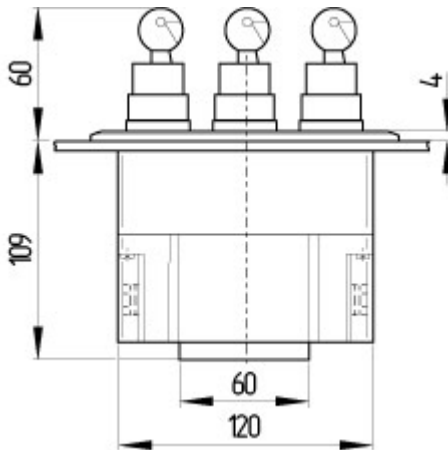**CCC certification** (en) 2 MB, 29.10.2018
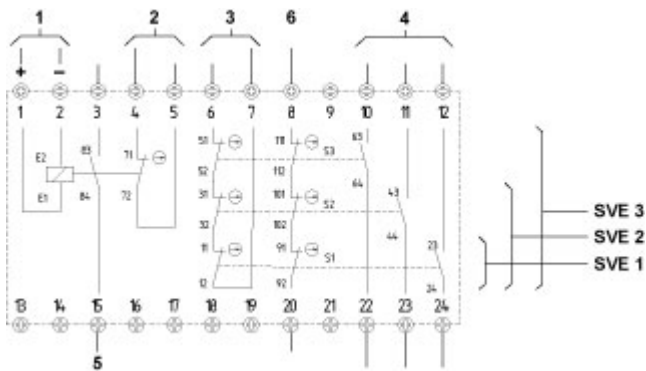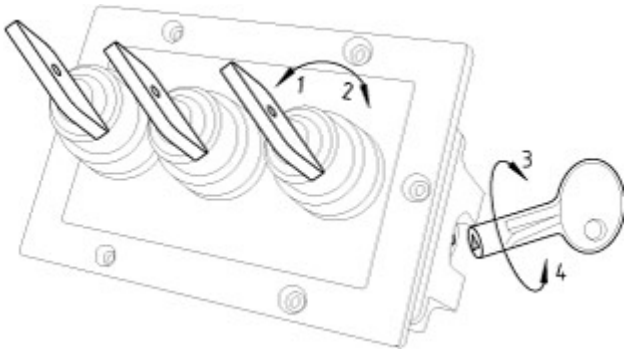Code: q_svep02

Images

Dimensional drawing (basic component)

Dimensional drawing (basic component)

Dimensional drawing (basic component)

Wiring example

Operating principle