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KISSLING TOGGLE SWITCH

Series 08 - from TE Connectivity (TE)

Quality Switch

The KISSLING toggle switches from TE Connectivity's product family have been developed under strict guidelines to meet international standards.

This series of toggle switches is mainly used as robust, industrial and durable switches in military vehicles. The housing of the Series 08 is made of duroplastic and meets IP68/IP6K8 protection class standards. This toggle switch is equipped with a safe switching mechanism, which is provided by an additional internal contact protection.

All these switches are sealed themselves and we offer additional sealing rings for improved mounting solutions and optional bellows for the handles. Our broad selection of toggles includes many options for switching configuration, termination type, load carrying capabilities and locking combinations.

TE Connectivity provides switches both with and without switch guards to prevent accidental switching, as well as individual switches and complete switch assemblies with additional sealed housings for simplified vehicle assembly procedures.

Features

- Military grade robustness VG 95 318
- High quality silver alloy or gold plated contacts
- Sealing technology meets IP68/IP6K8
- 2- and 3-Position switch actions
- Variety of available switching styles
- Locking options for individual needs

Applications

- Commercial vehicles
- Aviation ground support equipment
- Military ground equipment and vehicles
- Plant and industrial engineering
- Medical equipment
- Construction machinery

KISSLING TOGGLE SWITCH

Series 08

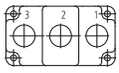
Specification

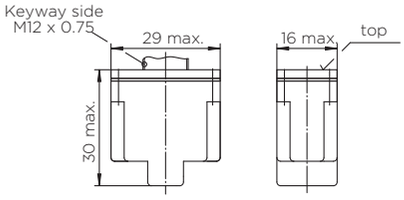
Technical Data

Housing Material	Duroplast GF
Construction iaw	VG 95 318 and IEC 1 020
Seal **Connection**	IP68 IEC 60529 / IP6K8 DIN 40050 part 9 / IP6K8 ISO 20653 IP00 IEC 60529 / IP00 DIN 40050 part 9 / IP00 ISO 20653
Current carrying parts	CuZn-alloy
Contact material	Silver-alloy or gold plated contacts
Temperature range	-55˚C to +85˚C
Electrical life (nominal load)	100.000 cycles
Nominal voltage / **Continuous current**	28VDC, 20A ohmic load 28VDC, 15A L/R = 5msec inductive load 115VAC, 15A inductive load
Min. switching capacity	12VDC, 20mA

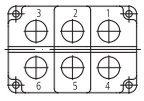
Technical drawings

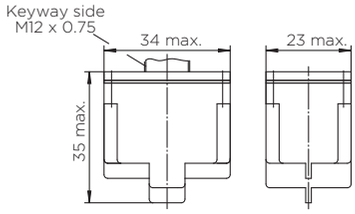
1 Pole



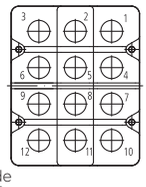


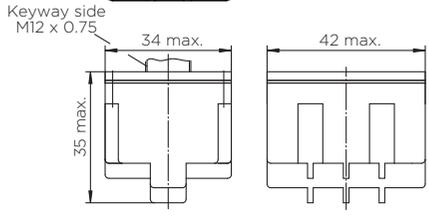
2 Pole



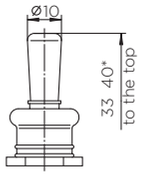


4 Pole



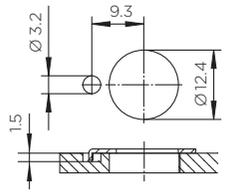


Type with bellows for use in severe conditions depending on specific environmental application:
CR-Neoprene ...933
FVMQ-Fluorsilicone ...955

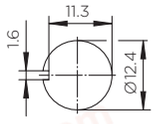


* valid for versions with locking

Mounting Detail:
with Locking Ring

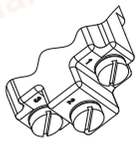


Mounting Detail:
without Locking Ring

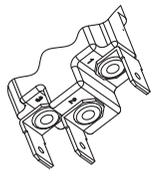


Connection

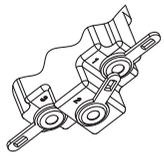
Screws M 3,5 x 6 - ISO 1580



FASTON DIN 46 244 - A 6,3 - 0,8
for receptacles



Soldering terminal to AWG 14



KISSLING TOGGLE SWITCH

Series 08

Switching Styles

Switching Styles	1-pole Toggle position in			2-pole Toggle position in			4-pole Toggle position in		
	keyway side	center	opposite keyway side	keyway side	center	opposite keyway side	keyway side	center	opposite keyway side
10	0	-	2-3	0 0	-	2-3 5-6	0 0 0 0	-	2-3 5-6 8-9 11-12
11	0 *	-	2-3	0 * 0	-	2-3 5-6	0 0 0 * 0	-	2-3 5-6 8-9 11-12
12	1-2 *	-	0	1-2 * 4-5	-	0 0	1-2 4-5 7-8 * 10-11	-	0 0 0 0
13	1-2	-	2-3	1-2 4-5	-	2-3 5-6	1-2 4-5 7-8 10-11	-	2-3 5-6 8-9 11-12
14	1-2 *	-	2-3	1-2 * 4-5	-	2-3 5-6	1-2 4-5 7-8 * 10-11	-	2-3 5-6 8-9 11-12
15	1-2	0	2-3	1-2 4-5	0 0	2-3 5-6	1-2 4-5 7-8 10-11	0 0 0 0	2-3 5-6 8-9 11-12
16	1-2 *	0	2-3	1-2 * 4-5	0 0	2-3 5-6	1-2 4-5 7-8 * 10-11	0 0 0 0	2-3 5-6 8-9 11-12
17	1-2 *	0	2-3 *	1-2 * 4-5	0 0	2-3 * 5-6	1-2 4-5 7-8 * 10-11	0 0 0 0	2-3 5-6 8-9 * 11-12
18	1-2	1-2	2-3	1-2 4-5	1-2 4-5	2-3 5-6	1-2 4-5 7-8 10-11	1-2 4-5 7-8 10-11	2-3 5-6 8-9 11-12
19	1-2	1-2	2-3 *	1-2 4-5	1-2 4-5	2-3 * 5-6	1-2 4-5 7-8 10-11	1-2 4-5 7-8 10-11	2-3 5-6 8-9 * 11-12
20				1-2 4-5	1-2 5-6	2-3 5-6	1-2 4-5 7-8 10-11	2-3 4-5 0 0	2-3 5-6 8-9 11-12
21				1-2 4-5	1-2 5-6	2-3 5-6			
22				1-2 * 4-5	1-2 5-6	2-3 * 5-6	1-2 4-5 7-8 * 10-11	2-3 4-5 0 0	2-3 5-6 8-9 * 11-12
23	1-2	2-3	2-3	1-2 4-5	2-3 4-5	2-3 5-6	1-2 4-5 7-8 10-11	2-3 4-5 7-8 11-12	2-3 5-6 8-9 11-12
24				1-2 4-5	1-2 5-6	2-3 * 5-6			
25				1-2 * 4-5	1-2 5-6	2-3 5-6	1-2 4-5 7-8 * 10-11	2-3 4-5 7-8 11-12	2-3 5-6 8-9 11-12
26							1-2 4-5 7-8 10-11	2-3 4-5 7-8 11-12	2-3 5-6 8-9 11-12
27							1-2 4-5 7-8 * 10-11	2-3 4-5 7-8 11-12	2-3 5-6 8-9 * 11-12

Bridge / * These positions are only momentary. All others are maintained.

Ordering Information

Part Number

example: 08.2.2.16 E 955

08._._._ _ _ _ _

No. Poles

1	1 pole
2	2 pole
4	4 pole

Connection

1	Screws M 3,5 x 6 - ISO 1580
2	Faston DIN 46 244 - A6,3 - 0,8
3	Soldering terminal to AWG 14

Types with bellows

933	CR-Neoprene
955	FVMQ- Fluorsilicone

Available locking options

_	Select on page 4

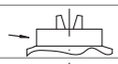
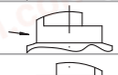
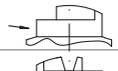
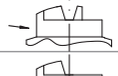
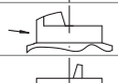
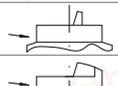
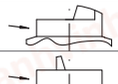
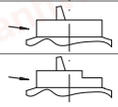
Switching styles

__	Select on page 3

KISSLING TOGGLE SWITCH

Series 08

Locking options

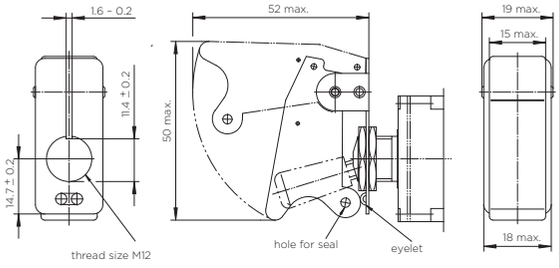
Available locking combinations		Toggle position in keyway side	Toggle position in center	Toggle position in opposite keyway side	recommended for switching style
A		locked	locked	locked	15, 18, 20, 21, 23, 26
B		locked	locked	locked out	15, 18, 19, 20, 21, 23, 24, 26
D		locked	locked out	locked	10, 13
E		locked out	locked	locked out	15 - 27
F		locked out	locked out	locked	10, 11, 12, 13, 14
G		locked	locked out	locked out	10, 13
K		locked out	locked	locked	15, 16, 18, 20, 21, 23, 25, 26
L		locked out	locked to keyway side	locked out	15 - 27
M		locked out	locked to opposite keyway side	locked out	15, 16, 18, 20, 21, 23, 25, 26
N		locked out	locked to opposite keyway side	locked out	15 - 27
P		locked	locked to keyway side	locked out	15, 18, 19, 20, 21, 23, 24, 26
T		locked	locked from middle to keyway side	locked from opposite keyway side to middle	15, 18, 20, 23, 26

→ = keyway side

Accessories

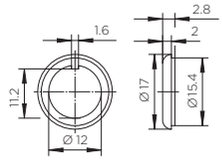
Switch Guard:

Prevent accidental switching of toggle



Seal ring: 08.0.0.50

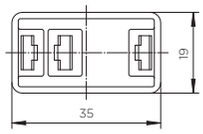
For sealing of mounting hole



Receptacle:

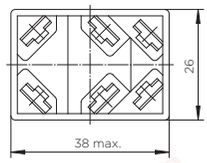
For quick connection, increase safety and prevents from contact the fasteners (IP20)
Inverse-polarity protection.
Available for switches with faston connection

1- POLE
(depth 41,5)



08.1.2.05

2- POLE
(depth 41,5)



08.2.2.05

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