KISSLING TOGGLE SWITCH

Series 07 - from TE Connectivity (TE)

Quality Safety 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 control switches in commercial vehicles. The housing of the Series 7 is made of thermoplastic and meets IP68 protection class standards.

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

- High quality silver alloy or gold plated contacts
- Sealing technology meets IP6K5
- 2- and 3-position switch actions
- Variety of available switching styles
- Locking options for individual needs

Applications

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

# KISSLING TOGGLE SWITCH

Series 07

Specification

Technical Data

| Housing Material	Thermoplast GF
Construction iaw	IEC 1 020
Seal Connection	IP65 IEC 60529 / IP6K5 DIN 40050 part 9 / IP6K5 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	-35˚C to +60˚C
Electrical life (nominal load)	100.000 cycles
Nominal voltage / Continuous current	12VDC, 20A ohmic load 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

Keyway side M12 x 0.75
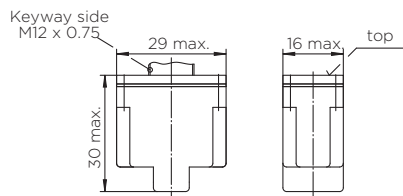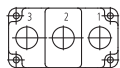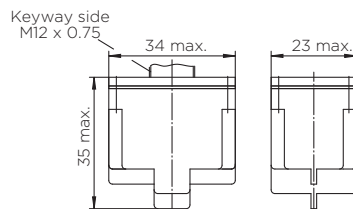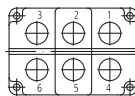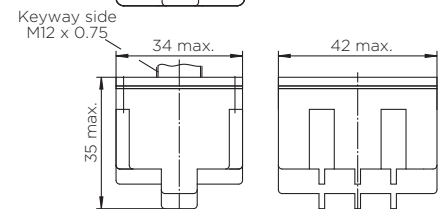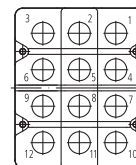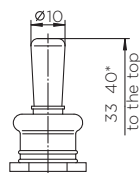
Type with bellows for use in severe conditions depending on specific environmental application:
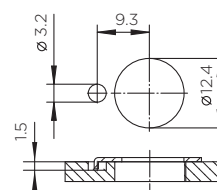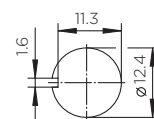CR-Neoprene ...933
FVMQ-Fluorsilicone ...955

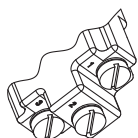* valid for versions with locking

Mounting Detail: with Locking Ring

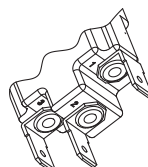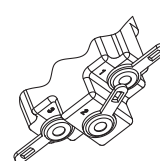Mounting Detail: without Locking Ring

Connector

Screws M 3,5 x 6 - ISO 1580

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

Soldering terminal to AWG 14

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	O	-	2-3	O O	-	2-3 5-6	O O O O	-	2-3 5-6 8-9 11-12
11	O *	-	2-3	O * O	-	2-3 5-6	O O O * O	-	2-3 5-6 8-9 11-12
12	1-2 *	-	O	1-2 * 4-5	-	O O	1-2 * 4-5 7-8 10-11	-	O O O O
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	O	2-3	1-2 4-5	O O	2-3 5-6	1-2 4-5 7-8 10-11	O O O O	2-3 5-6 8-9 11-12
16	1-2 *	O	2-3	1-2 * 4-5	O O	2-3 5-6	1-2 4-5 7-8 * 10-11	O O O O	2-3 5-6 8-9 11-12
17	1-2 *	O	2-3 *	1-2 * 4-5	O O	2-3 * 5-6	1-2 4-5 7-8 * 10-11	O O O O	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 O O	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 O O	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

Ordering Information

Part Number

example: 07.1.2.15 A 933

07._._.__ _ ___

No. Poles

1	1 pole
2	2 pole
4	4 pole

Connector

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

Typpes with bellows

933	CR-Neoprene
955	FVMQ- Fluorsilicone

Available locking combinations

_	Select on page 4

Switching styles

__	Select on page 3

Locking options

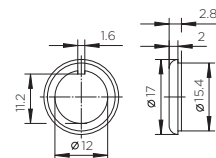| Available locking combinations		Toggle position in			recommended for switching style
		keyway side	center	opposite keyway side	
A		locked	locked	locked	15, 18, 20, 21, 23, 26
B		locked	locked	locked out	15, 18, 19, 20, 21, 23, 24, 26
D		locked	locked out	locked	10, 13
E		locked out	locked	locked out	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
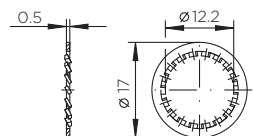
Switch Guard:
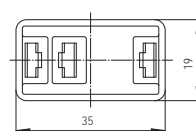Prevent accidental switching of toggle

thread size M12   hole for seal   eyelet
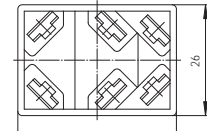
Receptacle:
For quick connection, increase safety and prevents from contact the fasteners (IP20)
Inverse-polarity protection.
Available for switches with faston connection
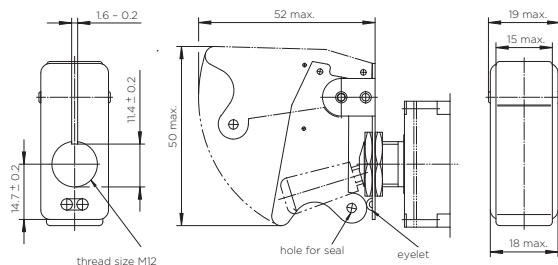
Seal ring: 08.0.0.50
For sealing of mounting hole

1- POLE
(Tiefe 41,5 | depth 41,5)

08.1.2.05

2- POLE
(Tiefe 41,5 | depth 41,5)

08.2.2.05

Tooth lock washer

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity](#):
  07-1-2-12 07-1-2-13 910 07-1-2-15 934 07-1-2-17 07-1-2-17 934 07-2-2-10 07-2-2-13 07-2-2-13 901 07-2-2-17
07-4-2-13 933 07-1-1-10 07-1-2-13