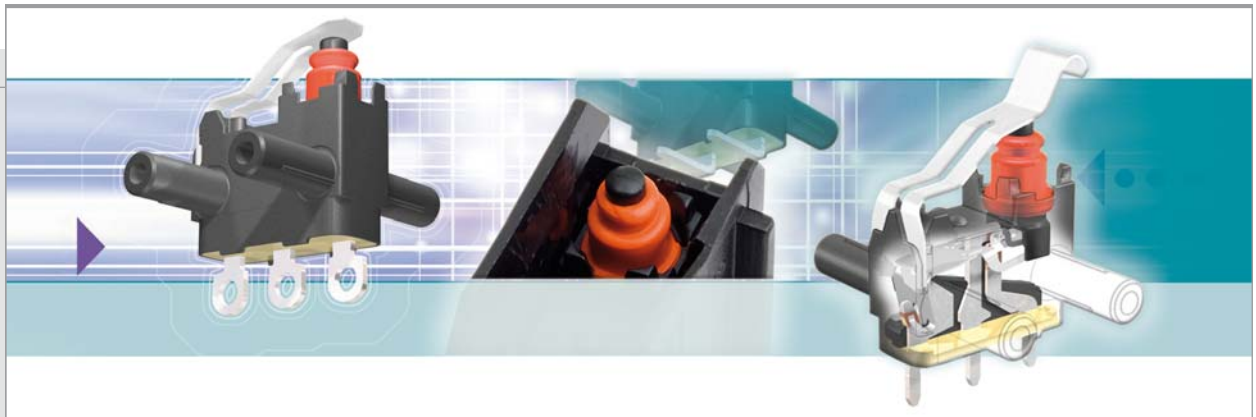
SERIES 1065 - MICRO-SIGNAL SWITCHES

TO 100 mA 30 V DC



PRODUCT FEATURES

- Redundant contact system for high switching reliability by double contacting
- Self-cleaning contact system due to wiping contacting
- Center-zero version (basic type 1075) for detecting 3 switching positions
- Noiseless switching system
- Large overtravel
- Start-up angle up to 40° possible

ON REQUEST

- Other fastening pins
- Other lever forms
- Customized cable assembly
- Diagnosis capable versions

Mechanical life endurance		50E4
Contact resistance (new condition)		< 500 mOhm
Insulation resistance (new condition)		1 000 MOhm
Protection type		IP 00 connection side basic types 1065 and 1075 IP 67 actuator side all basic types, connection side basic type 1068
Ambient temperature		-40 °C ... +85 °C
Flammability		UL 94 V-2
Material	actuator	POM
	additional actuator	stainless steel spring steel
	housing	PBTP
	connections	tinned
Contact material		Au
Shock resistance		50 g
Miscellaneous		terminal side sealed







SERIES 1065 - MICRO-SIGNAL SWITCHES

TO 100 mA 30 V DC





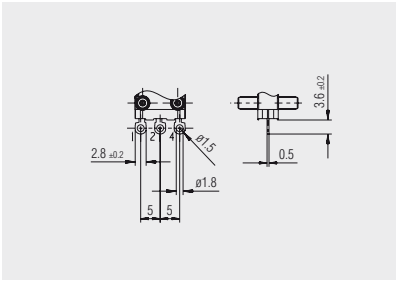
	100 mA 30 V DC 2E5	10 mA 16 V DC 50E4	Connection type	Connection description	Operating force in N	Operating position (OP NC) in mm	OFF position in mm	Operating position (OP NO) in mm	Free position (FP) max. in mm	Permissible total travel position (TP) in mm	Actuator description	Lever drawing	Miscellaneous	Stock version
Normally open contact (SPNO)														
1068.0541	●	●		300 long	1 ±0.4	9.65 ±0.3		9.15 ±0.3	10.15	6.85			pin right 5 long	●
Changeover switch (SPDT momentary)														
1065.0503	●	●			1 ±0.4	9.65 ±0.3		9.15 ±0.3	10.15	6.85			pin both sides 5 long	●
1065.0603	●	●			1 ±0.4	9.65 ±0.3		9.15 ±0.3	10.15	6.85			pin both sides 2.5 long	●
1065.2000	●	●		coded	1 ±0.4	14 ±0.3		13.5 ±0.3	14.5	11.2				●
1065.2563	●	●			1 ±0.4	14 ±0.3		13.5 ±0.3	14.5	11.2			pin both sides 5 long	●
1065.3603	●	●			1 ±0.4	9.65 ±0.3		9.15 ±0.3	10.15	6.85			pin both sides 2.5 long	●
1065.3653	●	●			1 ±0.4	9.65 ±0.3		9.15 ±0.3	10.15	6.85			pin both sides 2.5 long	●
1065.5005	●	●				9.85 ±0.45		9.35 ±0.45	11.35	7.35		L02	pin both sides 5 long	●
1065.5103	●	●			≤ 2.2	13 ±0.65		12.3 ±0.65	14.7	9		L21	pin both sides 2.5 long	●
1065.7100	●	●		coded	≤ 2.2	17.35 ±0.65		16.65 ±0.65	19.05	13.35		L21		●
1068.0503	●	●		300 long	1 ±0.4	9.65 ±0.3		9.15 ±0.3	10.15	6.85			pin both sides 5 long	●
1068.0601	●	●		300 long	1 ±0.4	9.65 ±0.3		9.15 ±0.3	10.15	6.85			pin right 2.5 long	●
Changeover switch with OFF position in the center (SPDT momentary - Center OFF)														
1075.0603	●	●			1 ±0.4	9.65 ±0.3	8.85 ±0.5	8.05 ±0.3	10.15	6.85			pin both sides 2.5 long	●
1075.2000	●	●		coded	1 ±0.4	14 ±0.3	13.2 ±0.5	12.4 ±0.3	14.5	11.2				●
1075.3603	●	●			1 ±0.4	9.65 ±0.3	8.85 ±0.5	8.05 ±0.3	10.15	6.85			pin right 2.5 long	●
1075.3653	●	●			1±0.4	9.65 ±0.3	8.85 ±0.5	8.05 ±0.3	10.15	6.85			pin left 2.5 long	●

SERIES 1065 - MICRO-SIGNAL SWITCHES

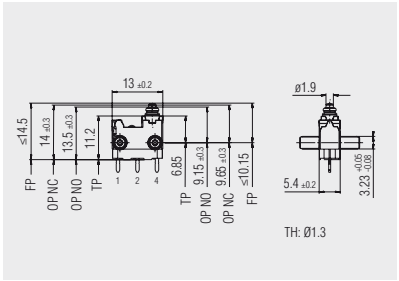
TO 100 mA 30 V DC



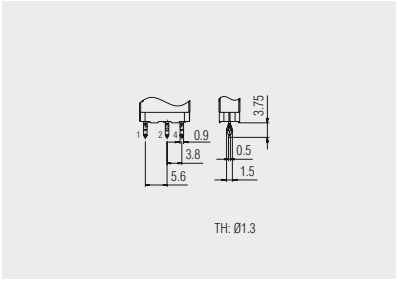
Basic type 1065



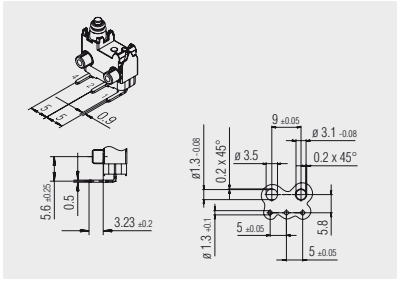
Solder terminal



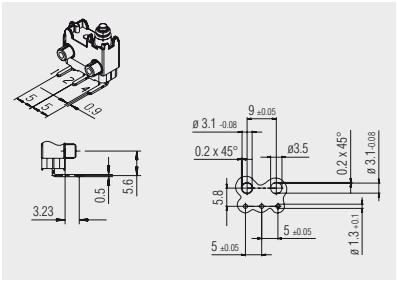
PCB terminal



PCB terminal coded and crowned



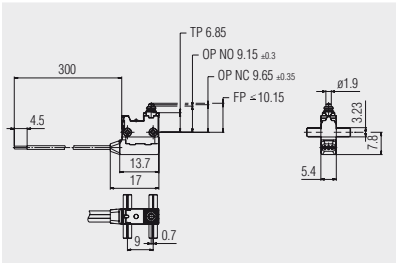
PCB terminal left angled



PCB terminal right angled



Basic type 1068



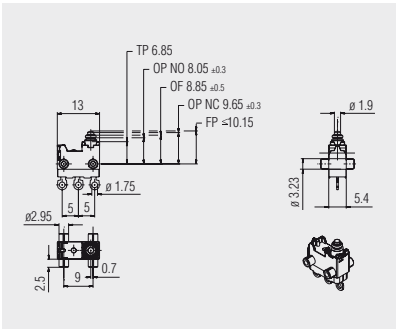
Cable 300 long, tinned wire ends

SERIES 1065 - MICRO-SIGNAL SWITCHES

TO 100 mA 30 V DC



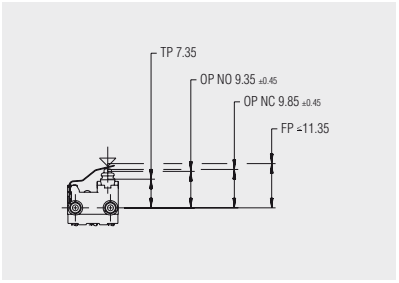
Basic type 1075



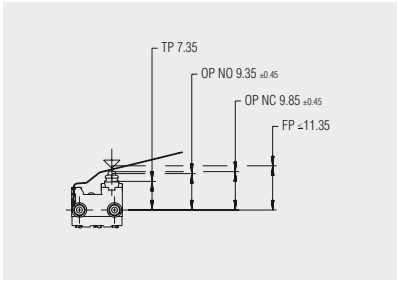
Due to the off range between the normally closed contact and the normally open contact increased in relation to basic type 1065 the switch can be used for determining three switching positions. As a result two conventional switches can be replaced by one of these new switch versions in many applications.



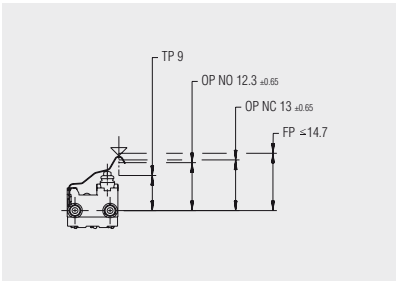
Auxiliary actuator



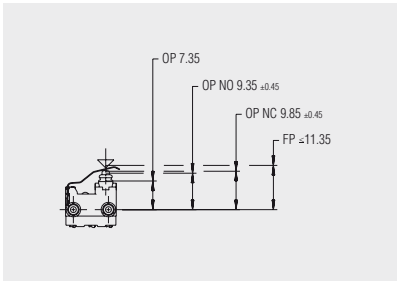
L01: straight lever



L02: straight lever



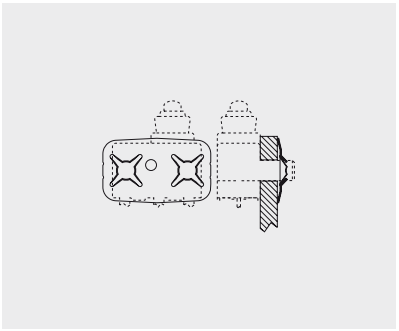
L21: simulated roller lever



L31: differential levers



Additional parts



140.092.021
Fastening disc for the basic types 1065, 1068 and 1075

The fastening disc offers a fast, reliable fastening possibility in combination with switches with 5 mm long pins on plates or plastic parts with a wall thickness of up to 2.5 mm.

APPROVAL MARKS

	ENEC 05 (KEMA)		UL (USA)
	ENEC 10 (VDE)		UL (USA + Canada)
	VDE		CSA (Canada)
			CSA (Canada + USA)

TERMINAL SYMBOLS

	Quick-connect terminal		Cable
	Solder terminal		Terminal strip
	Short solder terminal		Push-in terminal
	PCB terminal		Snap-in terminal
	PCB terminal angled to left		Cut terminal
	PCB terminal angled to right		Screw terminal
	Socket terminal		

ACTUATOR SYMBOLS

	Straight lever		Lever simulated roller with adjusting screw
	Lever simulated roller		Lever with adjusting screw and roller
	Lever with roller		Lever with cams
	Differential lever		Housing cams
	Spring lever		Pushbutton
	Spring lever bent		Rotary shaft
	Spring lever with molded spring cam		Standard actuator
	Lever with adjusting screw		Mushroom-shaped actuator

ABBREVIATIONS TECHNICAL DRAWINGS

ad	Adjustable	**OP**	Operating position
AN	Anode	**OP NC**	Operating position normally closed contact
BL	Block	**OP NO**	Operating position normally open contact
FH	Fixing hole, locating hole fixing pin	**OR**	On request
FI	Fields for function indicator	**RC**	Recommended cut-out
FP	Free position	**RL**	Reference level
FX	Fixing pin	**SH**	Snap-in hole
ju	Adjusted	**SL**	Symbol limit
MC	Marking cathode	**SP**	Solder pads
MF	Mounting frame	**ST**	Slide travel
MP	Measuring point	**SW**	Switching position
OFF	Off	**TH**	Terminal hole
off-range	Zero position	**tk**	Thick
OG	Operating range	**to**	Top
ON	On	**TP**	Total travel position

SWITCHING FREQUENCY (ABBREVIATIONS)

e.g. 5E4 switching cycles ≙ **50 000** switching cycles