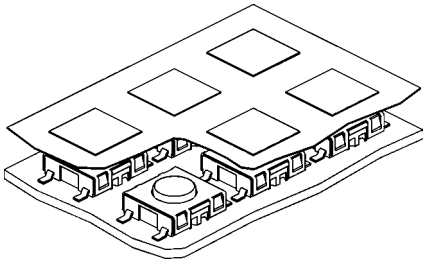
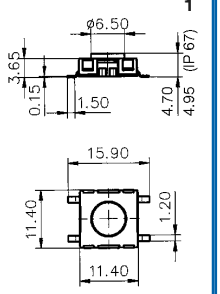
Switches in momentary action SMS, PMS, PMK

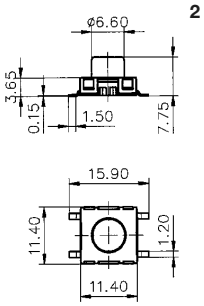
Models	Construction	Dimensions	Solder pads

SMS
Gullwing-leads

1 2

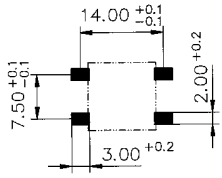




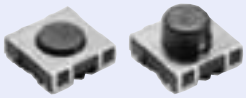


Solder pads

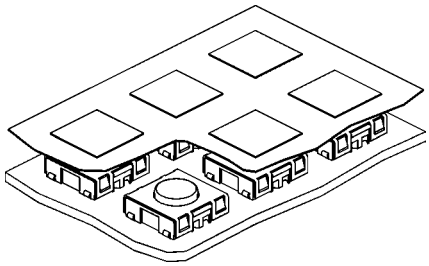
Gullwing

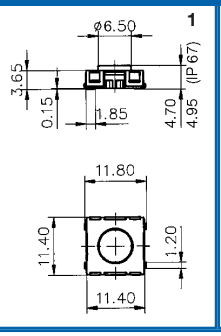


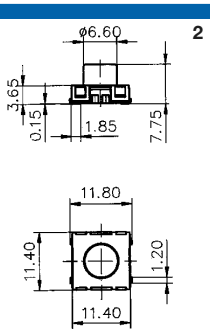
SMS
J-leads



1 2

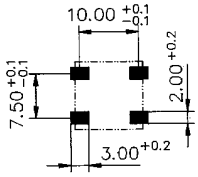




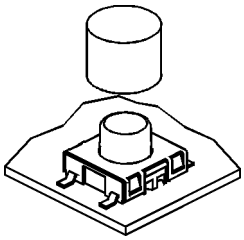


Solder pads

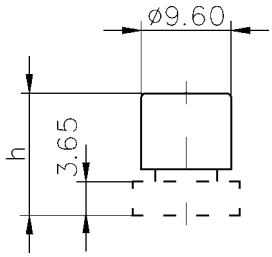
J-leads



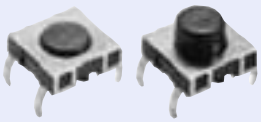
Buttons in variable heights



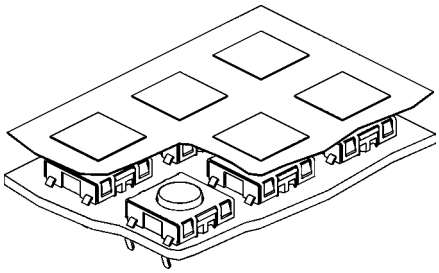
Overall height **h** variable

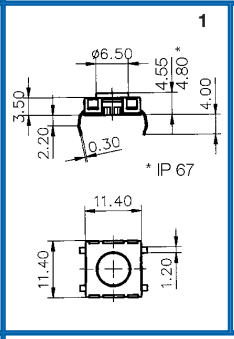


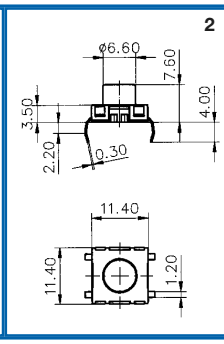
PMS
Through hole mounting



1 2

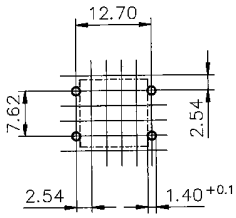




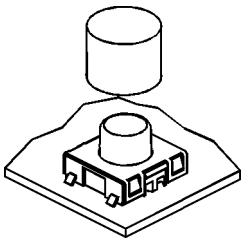


Drilling diagram

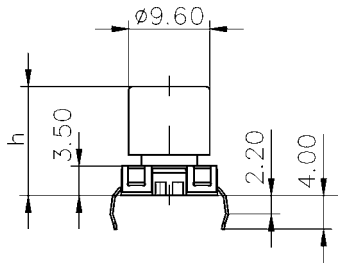
through hole



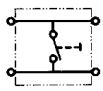
PMS
height variable



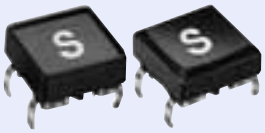
Overall height **h** variable



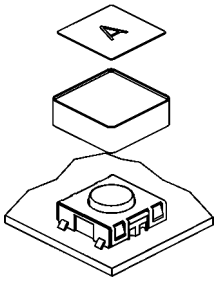
Circuit diagram

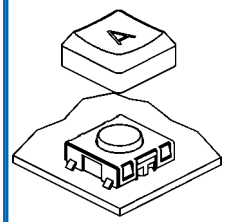


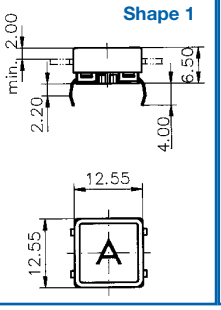
PMK

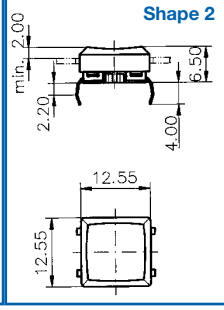


Shape 1 Shape 2









Technical Data SMS, PMS, PMK

1. Mechanical data	SMS	PMS	PMK
Actuating force IP 40 IP 67	1,8 N ±0,4 N 2,2 N ±0,4 N	1,8 N ±0,4 N 2,2 N ±0,4 N	2,2 N ±0,4 N
Contact travel	0,35 mm ±0,1 mm	0,35 mm ±0,1 mm	0,30 mm ±0,1 mm
(DIN 41640 Teil 19) / End stop strength	> 100 N		
(IEC 512-5 Test 9a, actuating force 5 N) / Lifetime	> 10^6 Operations		

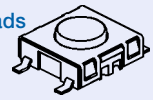
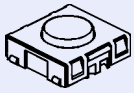
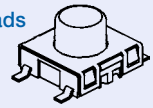
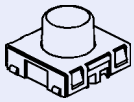
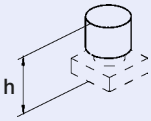
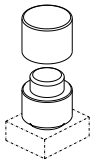
2. Electrical data	
Switching voltage max.	30 V AC / 42 V DC
Switching current max.	50 mA
Lifetime (at rated breaking capacity 0,12 W)	> 10^6 Cycles
(IEC 512-2, mV-Method) Initial contact resistance, new	< 50 mΩ
Initial contact resistance after 10^6 cycles	< 150 mΩ
(IEC 512-2) Insulation resistance	> 10^8 Ω
Contact bounce time	typ. 0,15 ms

3. Other data	SMS	PMS	PMK
Solderability (CECC 00802 und IEC 68-2-20)	IR-Reflow		
(IEC 68-2-20 Test Tb, Method 1A) Soldering heat resistance (IEC 68-2-20 Test Tb, Method 2) (CECC 00802 Classification B) (CECC 00802 Classification C)	 350 °C / 10 s 215 °C / 40 s 260 °C / 10 s	260 °C / 10 s 350 °C / 10 s	 260 °C / 10 s 350 °C / 10 s
Ambient temperature	-40 °C…+85 °C		
Storage temperature	-40 °C…+85 °C		
(IEC 68-2-45) Testmedium Cleaning agent proof	Zestron		
(DIN 41640 Teil 84) Flux-proof	—	given	given
Degree of protection	IP 40 / IP 67	IP 40 / IP 67	IP 67

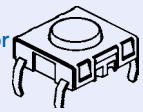
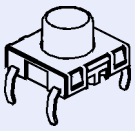
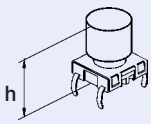
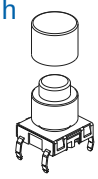
4. Materials	SMS	PMS	PMK
Contact material gold	CuZn – 1,5 µm Ni + 0,5 µm Au		
Terminals	CuZn – 8 µm SnPb		
Socket	Thermoplast PA 4.6		
Actuator	Thermoplast PPS		
Cover plate	X12CrNi17 7		
Sealing membrane	—	VMQ	VMQ

5. Packaging	SMS	PMS	PMK
	taped and reeled		
	loose in boxes	loose in boxes	loose in boxes

Switches in momentary action SMS, PMS

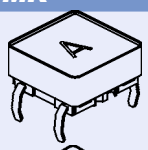
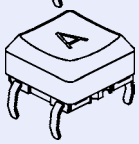
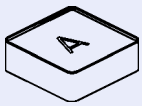
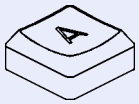
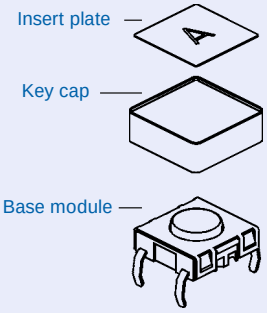
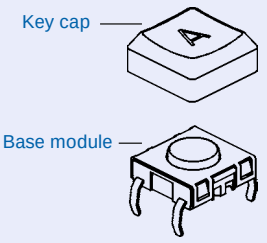
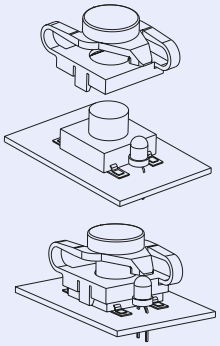
Models	Variations			Part Number
SMS				
Gullwing-leads 	Degree of protection	IP 40		1241.1600. XX
		IP 67		1241.1606. XX
J-leads 		IP 40		1241.1601. XX
		IP 67		1241.1607. XX
Gullwing-leads 		IP 40		1241.1612. XX
		IP 67		1241.1618. XX
J-leads 		IP 40		1241.1613. XX
		IP 67		1241.1619. XX
	Packaging	loose in boxes		11
		taped and reeled		23
Button in variable heights for long actuators (must be ordered seperately) 	Overall height h 	8,50 mm	(yellow)	0862.8101
		9,25 mm	(orange)	0862.8102
		10,00 mm	(red)	0862.8103
		10,75 mm	(blue)	0862.8104
		11,50 mm	(green)	0862.8105
		12,25 mm	(grey)	0862.8106
		13,00 mm	(black)	0862.8107
		13,75 mm	(white)	0862.8108
	[1] additional key cap			0862.8226

[1] Starting with 14,50 mm, additional (second) key caps for midsizes (h +6 mm) are necessary. Order seperately.

PMS				
Short actuator 	Degree of protection	IP 40		1241.1602
		IP 67		1241.1608
Long actuator 		IP 40		1241.1614
		IP 67		1241.1620
Height variable 	Degree of protection	IP 40		1241.1624. XX
		IP 67		1241.1625. XX
	Overall height h 	(yellow)	8,35 mm = 1	[2]14,35 mm = 11
		(orange)	9,10 mm = 2	15,10 mm = 21
		(red)	9,85 mm = 3	15,85 mm = 31
		(blue)	10,60 mm = 4	16,60 mm = 41
		(green)	11,35 mm = 5	17,35 mm = 51
		(grey)	12,10 mm = 6	18,10 mm = 61
		(black)	12,85 mm = 7	18,85 mm = 71
		(white)	13,60 mm = 8	19,60 mm = 81

[2] Starting with 14,35 mm the heights were realized with an additional (second) keycap.

PMK and key caps for SMS, Illumination key caps

Models	Variations		Part Number
PMK			
Shape 1 	Degree of protection	with legend	1241.1629. X . XXX
		without legend	1241.1629. X . XXX
Shape 2 		with legend	1241.1633. X . XXX
		without legend	1241.1633. X . XXX
Shape 1 	for IP 67 with short actuator	with legend	0865.9541. X . XXX
		without legend	0865.9541. X . XXX
Shape 2 		with legend	0865.9542. X . XXX
		without legend	0862.800 X
SMS Tastkappe Key cap			
Shape 1 	Color of key cap	red	3
		green	5
		grey	6
		black	7
		white	8
	Legend of key cap/insert plate (Type height/ type face see page 39)	A = 001, B = 002, C = 003, D = 004, E = 005, F = 006, G = 007, H = 008, I = 009, J = 010, K = 011, L = 012, M = 013, N = 014, O = 015	P = 016, Q = 017, R = 018, S = 019, T = 020, U = 021, V = 022, W = 023, X = 024, Y = 025, Z = 026, 0 = 027, 1 = 028, 2 = 029, 3 = 030
		4 = 031, 5 = 032, 6 = 033, 7 = 034, 8 = 035, 9 = 036, + = 037, - = 038, · = 039, x = 040, ÷ = 041, ✳ = 042, = = 043, # = 044, ↔ = 045	↕ = 046, → = 047, ← = 048, ↓ = 049, ↑ = 050, % = 051, √ = 052, CTRL = 053, RETURN = 054, SHIFT = 055, LOCK = 056, STOP = 057, ENTER = 058, BACK = 059, LINE = 060
			EIN = 061, AUS = 062, AUF = 063, AB = 064, ON = 065, OFF = 066, UP = 067, DOWN = 068, HIGH = 069, LOW = 070, ON/OFF = 071, START = 072
PMK			
Shape 2 	Color of insert plate without legend shape 1	yellow = 091, orange = 092, red = 093, blue = 094, green = 095	grey = 096, black = 097, white = 098, anthracite = 099
Illumination key cap 	In Preparation		
	Color of key cap	transparent	0859.9335

Aufragsbezogene Fertigung / Order specific production

ООО «ЛайфЭлектроникс» “LifeElectronics” LLC

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru

www.lifeelectronics.ru