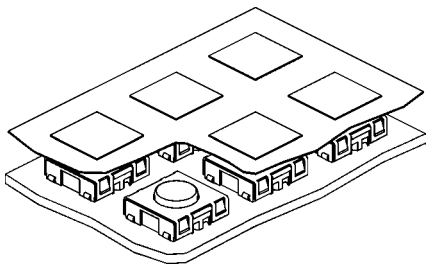
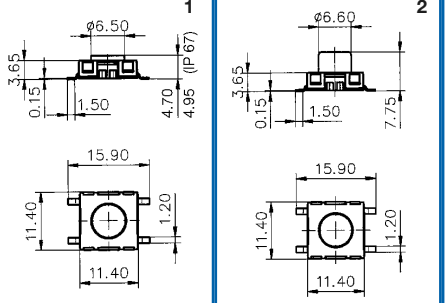
Taster SMS, PMS, PMK
Switches in momentary action SMS, PMS, PMK

Ausführungen Models	Aufbau Construction	Abmessungen Dimensions	Anschlussflächen Solder pads

SMS Gullwing-Anschluss
Gullwing-leads

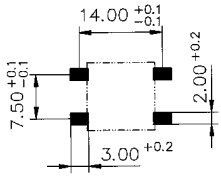
1 2



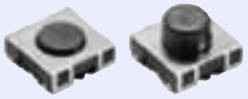


Anschlussflächen
Solder pads

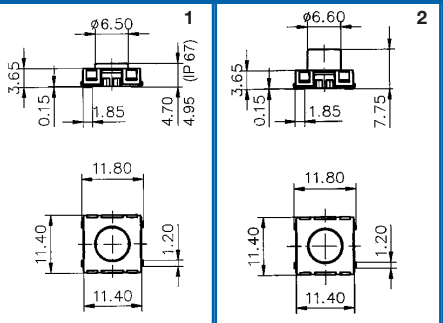
Gullwing



SMS J-Anschluss
J-leads

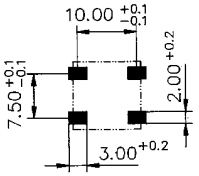


1 2

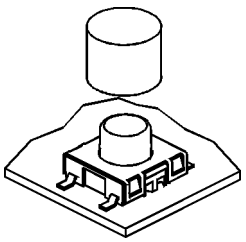


Anschlussflächen
Solder pads

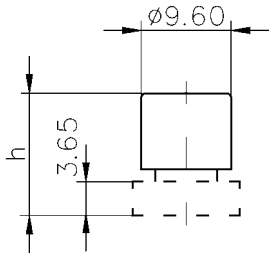
J-leads



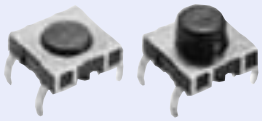
Verlängerungskappen
Buttons in variable heights



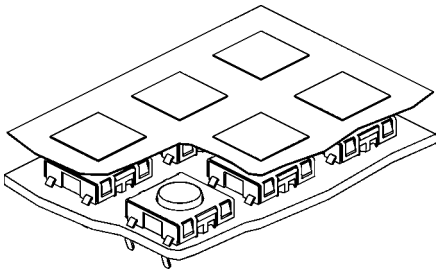
Gesamthöhe **h** variabel
Overall height **h** variable

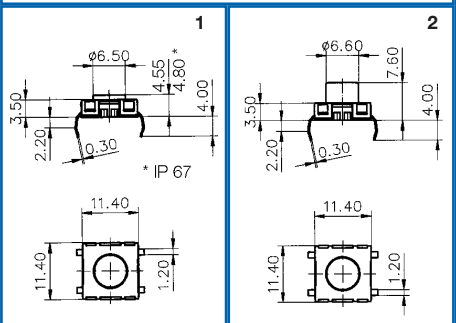


PMS Durchsteckmontage
Through hole mounting



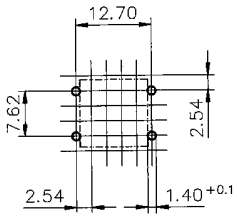
1 2



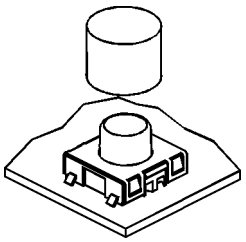


Bohrbild
Drilling diagram

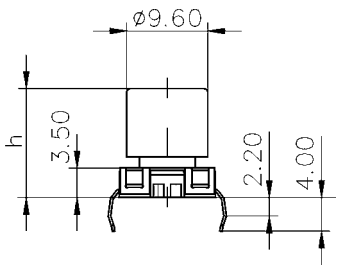
through hole



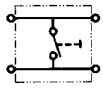
PMS höhenvariabel
height variable



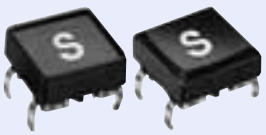
Gesamthöhe **h** variabel
Overall height **h** variable



Schaltsymbol
Circuit diagram

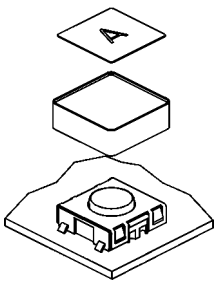


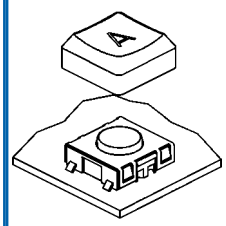
PMK

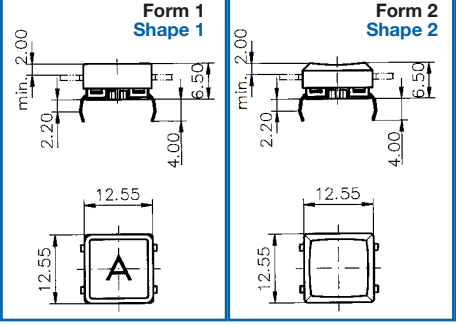


Form 1
Shape 1

Form 2
Shape 2







Technische Daten SMS, PMS, PMK
Technical Data SMS, PMS, PMK

1. Mechanische Kennwerte / Mechanical data		SMS	PMS	PMK
Betätigungskraft / 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
Schaltweg / Contact travel		0,35 mm ±0,1 mm	0,35 mm ±0,1 mm	0,30 mm ±0,1 mm
Endanschlagfestigkeit (DIN 41640 Teil 19) / End stop strength		> 100 N		
Lebensdauer (IEC 512-5 Test 9a, Betätigungskraft 5 N) / Lifetime		> 10^6 Betätigungen Operations		

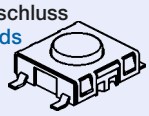
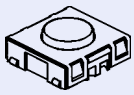
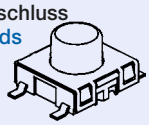
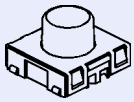
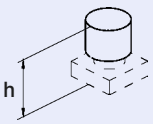
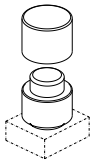
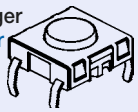
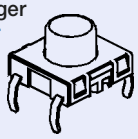
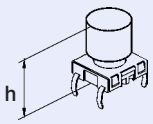
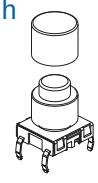
2. Elektrische Kennwerte / Electrical data	
Schaltspannung max. / Switching voltage max.	30 V AC / 42 V DC
Schaltstrom max. / Switching current max.	50 mA
Lebensdauer (bei Nennschaltleistung 0,12 W) Lifetime (at rated breaking capacity 0,12 W)	> 10^6 Schaltungen Cycles
Durchgangswiderstand, neu (IEC 512-2, mV-Methode) Initial contact resistance, new	< 50 mΩ
Durchgangswiderstand, nach 10^6 Schaltungen Initial contact resistance after 10^6 cycles	< 150 mΩ
Isolationswiderstand (IEC 512-2) / Insulation resistance	> 10^8 Ω
Prellzeit / Contact bounce time	typ. 0,15 ms

3. SonstigeKennwerte / Other data		SMS	PMS	PMK
Lötbarkeit / Solderability	(CECC 00802 und IEC 68-2-20)	IR-Reflow		
Lötwärmebeständigkeit Soldering heat resistance	(IEC 68-2-20 Test Tb, Methode 1A) (IEC 68-2-20 Test Tb, Methode 2) (CECC 00802 Klassifikation B) (CECC 00802 Klassifikation 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
Umgebungstemperatur / Ambient temperature		-40 °C…+85 °C		
Lagertemperatur / Storage temperature		-40 °C…+85 °C		
Reinigungsmittelbeständigkeit (IEC 68-2-45) Testmedium Cleaning agent proof		Zestron		
Flussmitteldichtigkeit (DIN 41640 Teil 84) / Flux-proof		—	gegeben given	gegeben given
Schutzgrad / Degree of protection		IP 40 / IP 67	IP 40 / IP 67	IP 67

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

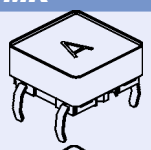
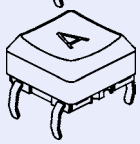
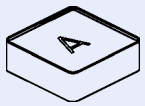
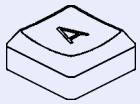
5. Verpackung / Packaging	SMS	PMS	PMK
	im Blistergurt taped and reeled		
	lose geschüttet loose in boxes	lose geschüttet loose in boxes	lose geschüttet loose in boxes

Taster SMS, PMS
Switches in momentary action SMS, PMS

Ausführungen / Models	Varianten / Variations				Artikelnummer / Part Number
SMS					
Gullwing-Anschluss Gullwing-leads 	Schutzgrad Degree of protection	IP 40			1241.1600. XX
		IP 67			1241.1606. XX
J-Anschluss J-leads 		IP 40			1241.1601. XX
		IP 67			1241.1607. XX
Gullwing-Anschluss Gullwing-leads 		IP 40			1241.1612. XX
		IP 67			1241.1618. XX
J-Anschluss J-leads 		IP 40			1241.1613. XX
		IP 67			1241.1619. XX
	Verpackung Packaging	lose geschüttet	loose in boxes		11
		im Blistergurt	taped and reeled		23
Zusätzl. Verlängerungs-kappen für lange Betätiger (muss separat bestellt werden) Button in variable heights for long actuators (must be ordered seperately)  	Gesamthöhe h Overall height h 	8,50 mm	(gelb / yellow)		0862.8101
		9,25 mm	(orange / orange)		0862.8102
		10,00 mm	(rot / red)		0862.8103
		10,75 mm	(blau / blue)		0862.8104
		11,50 mm	(grün / green)		0862.8105
		12,25 mm	(grau / grey)		0862.8106
		13,00 mm	(schwarz / black)		0862.8107
		13,75 mm	(weiß / white)		0862.8108
	[1] Zusätzl. Verlängerungskappe additional key cap				0862.8226
	[1]Ab 14,50 mm zusätzl. (zweite) Verlängerungskappen für Zwischengrößen (h +6 mm) erforderlich. Muss separat bestellt werden. Starting with 14,50 mm, additional (second) key caps for midsizes (h +6 mm) are necessary. Order seperately.				
PMS					
Kurzer Betätiger Short actuator 	Schutzgrad Degree of protection	IP 40			1241.1602
		IP 67			1241.1608
Langer Betätiger Long actuator 		IP 40			1241.1614
		IP 67			1241.1620
Höhenvariabel Height variable  	Schutzgrad Degree of protection	IP 40			1241.1624. XX
		IP 67			1241.1625. XX
	Gesamthöhe h Overall height h 	(gelb / yellow)	8,35 mm = 1	[2]14,35 mm =	11
		(orange / orange)	9,10 mm = 2	15,10 mm =	21
		(rot / red)	9,85 mm = 3	15,85 mm =	31
		(blau / blue)	10,60 mm = 4	16,60 mm =	41
		(grün / green)	11,35 mm = 5	17,35 mm =	51
		(grau / grey)	12,10 mm = 6	18,10 mm =	61
		(schwarz / black)	12,85 mm = 7	18,85 mm =	71
		(weiß / white)	13,60 mm = 8	19,60 mm =	81
	[2]Ab 14,35 mm werden die Höhen mit einer zusätzl. (zweiten) Verlängerungskappe realisiert. Starting with 14,35 mm the heights were realized with an additional (second) keycap.				

PMK und Tastkappen für SMS, Taskappen zur Beleuchtung
PMK and key caps for SMS, Illumination key caps

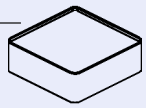
SCHURTER

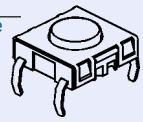
Ausführungen / Models	Varianten / Variations		Artikelnummer / Part Number
PMK			
Form 1 / Shape 1 	Schutzgrad IP 67 / Degree of protection	beschriftet / with legend	1241.1629.X.XXX
		unbeschriftet / without legend	1241.1629.X.XXX
Form 2 / Shape 2 		beschriftet / with legend	1241.1633.X.XXX
		unbeschriftet / without legend	1241.1633.X.XXX
Form 1 / Shape 1 	für IP 67 mit kurzem Betätiger / for IP 67 with short actuator	beschriftet / with legend	0865.9541.X.XXX
		unbeschriftet / without legend	0865.9541.X.XXX
Form 2 / Shape 2 		beschriftet / with legend	0865.9542.X.XXX
		unbeschriftet / without legend	0862.800 X

SMS Tastkappe / Key cap

Form 1 / Shape 1

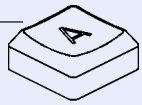
Einlegeschild / Insert plate 

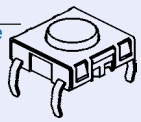
Tastkappe / Key cap 

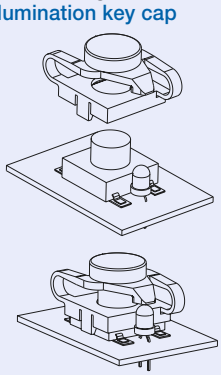
Grundmodul / Base module 

PMK

Form 2 / Shape 2

Tastkappe / Key cap 

Grundmodul / Base module 

Tastkappe als Beleuchtungs-Aufsatz / Illumination key cap 

Farbe der Tastkappe / Colour of key cap	rot	red	3						
	grün	green	5						
	grau	grey	6						
	schwarz	black	7						
	weiß	white	8						

Beschriftung Tastkappe/Einlegeschild (Schrifthöhe/Schriftarten siehe Seite 39)

Legend of key cap/insert plate (Type height/type face see page 39)

A = 001	P = 016	4 = 031	↕ = 046	EIN = 061
B = 002	Q = 017	5 = 032	→ = 047	AUS = 062
C = 003	R = 018	6 = 033	← = 048	AUF = 063
D = 004	S = 019	7 = 034	↓ = 049	AB = 064
E = 005	T = 020	8 = 035	↑ = 050	ON = 065
F = 006	U = 021	9 = 036	% = 051	OFF = 066
G = 007	V = 022	+ = 037	√ = 052	UP = 067
H = 008	W = 023	- = 038	CTRL = 053	DOWN = 068
I = 009	X = 024	· = 039	RETURN = 054	HIGH = 069
J = 010	Y = 025	x = 040	SHIFT = 055	LOW = 070
K = 011	Z = 026	÷ = 041	LOCK = 056	ON/OFF = 071
L = 012	0 = 027	✳ = 042	STOP = 057	START = 072
M = 013	1 = 028	= = 043	ENTER = 058	
N = 014	2 = 029	# = 044	BACK = 059	
O = 015	3 = 030	↔ = 045	LINE = 060	

Farbe des Einlegeschildes bei unbeschrifteter Ausführung Form 1 / Colour of insert plate without legend shape 1	gelb	yellow	= 091	grau	grey	= 096
	orange	orange	= 092	schwarz	black	= 097
	rot	red	= 093	weiß	white	= 098
	blau	blue	= 094	anthrazit	anthracite	= 099
	grün	green	= 095			

In Vorbereitung / In Preparation		
Farbe der Tastkappe / Colour of key cap	transparent / transparent	0859.9335

Aufragsbezogene Fertigung / Order specific production