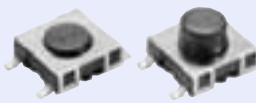
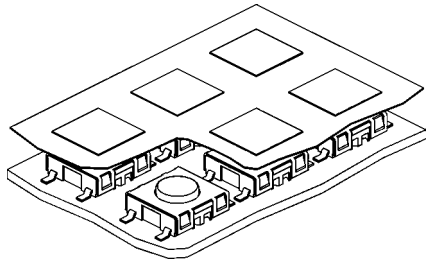
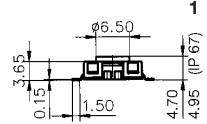
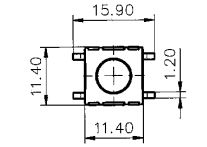
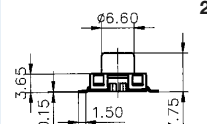
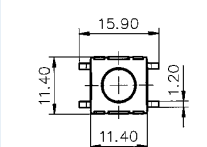
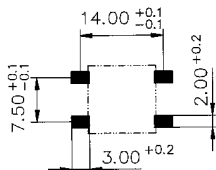
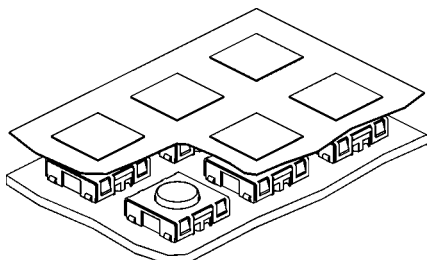
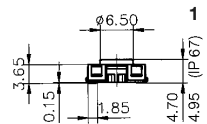
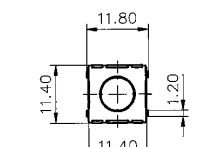
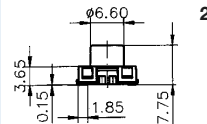
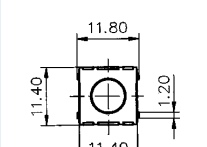
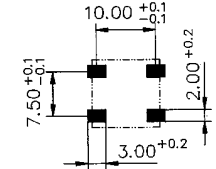
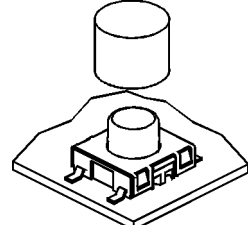
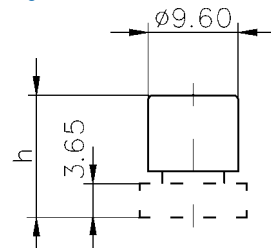
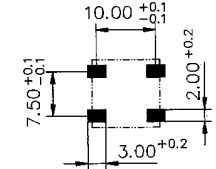
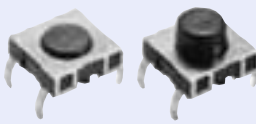
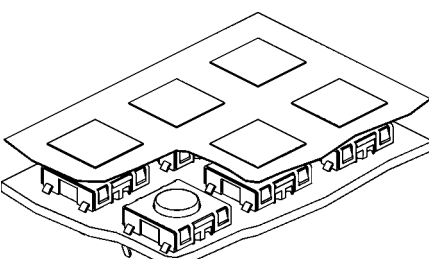
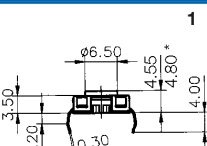
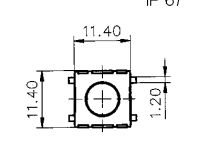
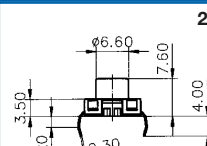
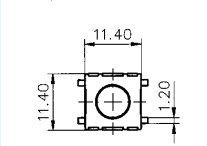
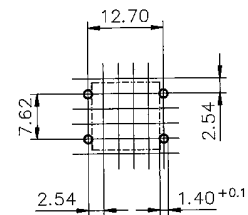
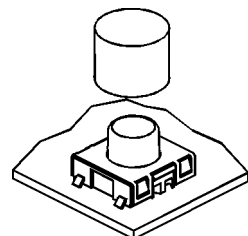
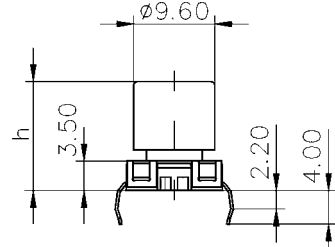
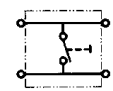
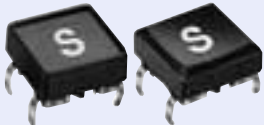
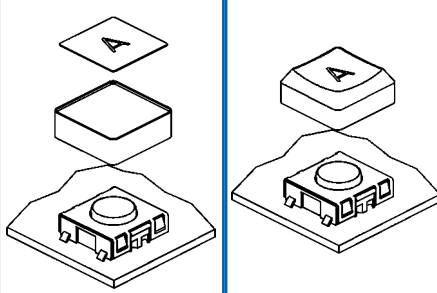
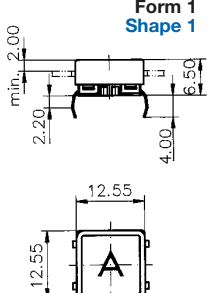
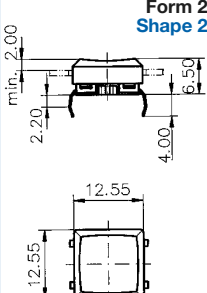
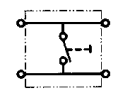


Taster SMS, PMS, PMK

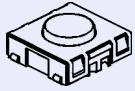
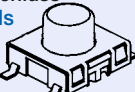
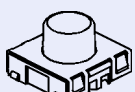
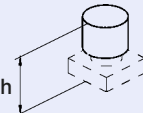
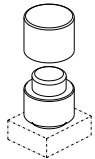
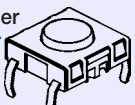
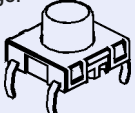
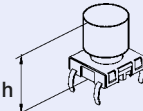
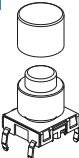
Switches in momentary action SMS, PMS, PMK

Ausführungen Models	Aufbau Construction	Abmessungen Dimensions	Anschlussflächen Solder pads
SMS Gullwing-Anschluss Gullwing-leads  1 2		1   2  	Anschlussflächen Solder pads Gullwing 
SMS J-Anschluss J-leads  1 2		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		1   2  	Bohrbild Drilling diagram through hole 
PMS höhenvariabel height variable 		Gesamthöhe h variabel Overall height h variable 	Schaltzeichen Circuit diagram 
PMK  Form 1 Shape 1 Form 2 Shape 2		Form 1 Shape 1  Form 2 Shape 2 	

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. Sonstige Kennwerte / Other data		SMS	PMS	PMK
Lötbarkeit / Solderability (CECC 00802 und IEC 68-2-20)		IR-Reflow		
Lötwärmebeständigkeit (IEC 68-2-20 Test Tb, Methode 1A) Soldering heat resistance (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

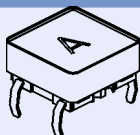
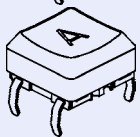
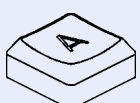
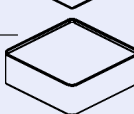
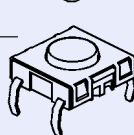
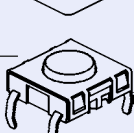
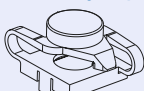
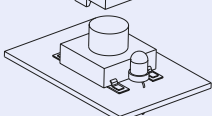
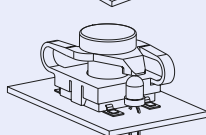
Taster SMS, PMS

Switches in momentary action SMS, PMS

Ausführungen Models SMS		Varianten Variations				Artikelnummer Part Number		
Gullwing-Anschluss Gullwing-leads  J-Anschluss J-leads  Gullwing-Anschluss Gullwing-leads  J-Anschluss J-leads  Zusätzl. Verlängerungs- kappen für lange Betätiger (muss separat bestellt werden) Button in variable heights for long actuators (must be ordered seperately) 	Schutzgrad Degree of protection		IP 40		1241.1600. XX			
			IP 67		1241.1606. XX			
			IP 40		1241.1601. XX			
			IP 67		1241.1607. XX			
			IP 40		1241.1612. XX			
			IP 67		1241.1618. XX			
			IP 40		1241.1613. XX			
			IP 67		1241.1619. XX			
	Verpackung Packaging		lose geschüttet		loose in boxes		11	
			im Blistergurt		taped and reeled		23	
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  Langer Betätiger Long actuator  Höhenvariabel Height variable 	Schutzgrad Degree of protection		IP 40		1241.1602			
			IP 67		1241.1608			
			IP 40		1241.1614			
			IP 67		1241.1620			
	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

Ausführungen Models PMK		Varianten Variations		Artikelnummer Part Number		
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 	Farbe der Tastkappe Colour of key cap	rot red		3		
		grün green		5		
		grau grey		6		
		schwarz black		7		
		weiß white		8		
		Beschriftung Tastkappe/Ein- legeschild (Schrifthöhe/ Schriftarten siehe Seite 39) 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
PMK Form 2 Shape 2 Tastkappe Key cap  Grundmodul Base module 	Farbe des Einlegeschildes bei unbeschrifteter Ausführung Form 1 Colour of insert plate without legend shape 1	gelb yellow orange orange rot red blau blue grün green	= 091 = 092 = 093 = 094 = 095	grau grey schwarz black weiß white anthrazit anthracite	= 096 = 097 = 098 = 099	
	Tastkappe als Beleuchtungs-Aufsatz Illumination key cap   	In Vorbereitung / In Preparation				
	Farbe der Tastkappe Colour of key cap	transparent transparent	0859.9335			
Auftragsbezogene Fertigung / Order specific production						