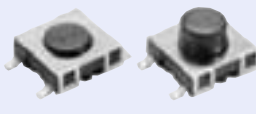
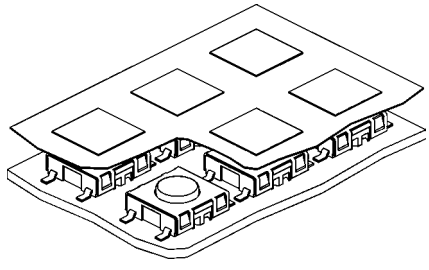
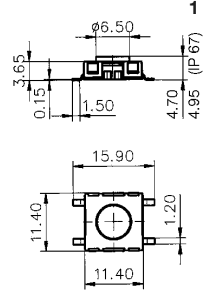
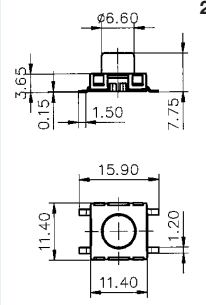
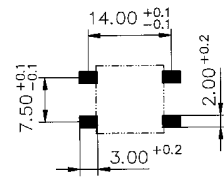

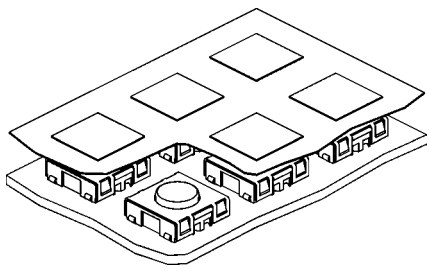
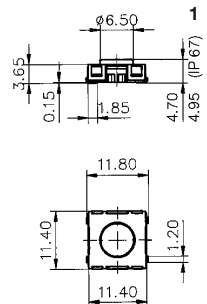
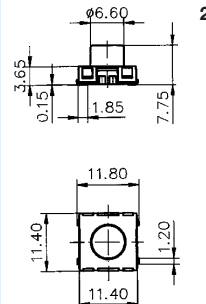
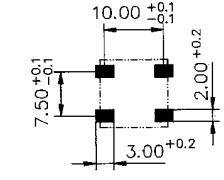

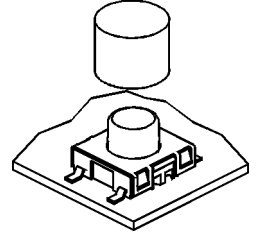
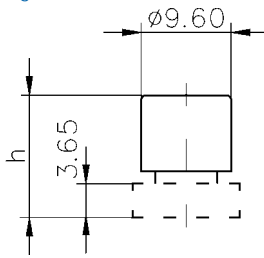
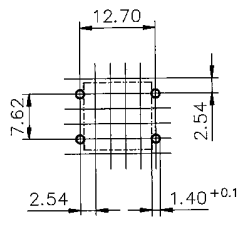
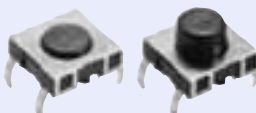
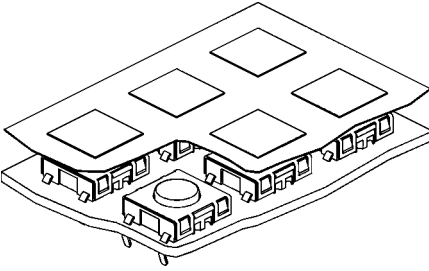
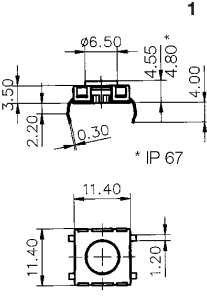
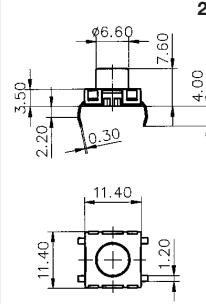
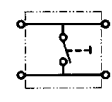

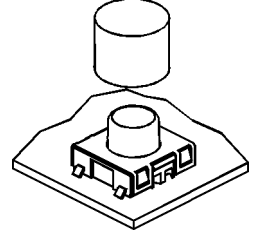
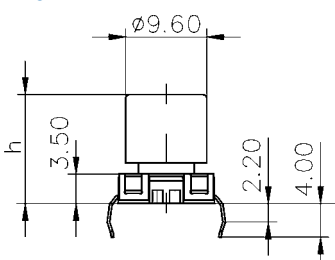
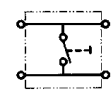
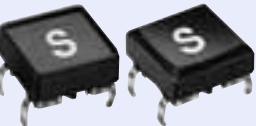
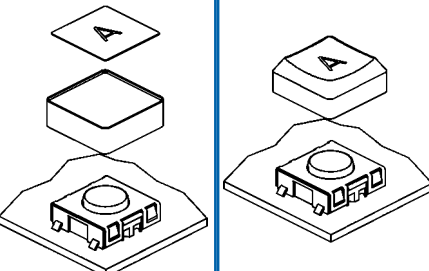
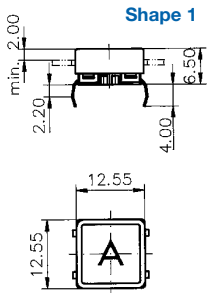
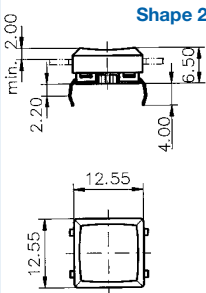
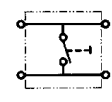


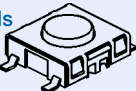
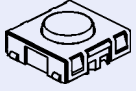
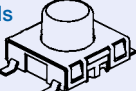
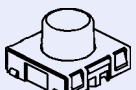
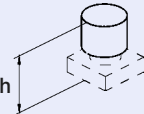
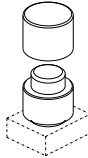
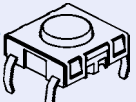
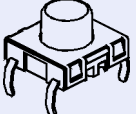
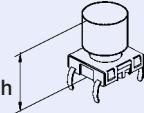
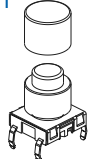
Switches in momentary action SMS, PMS, PMK

Models	Construction	Dimensions		Solder pads
<p>SMS Gullwing-leads</p>  <p>1 2</p>		<p>1</p> 	<p>2</p> 	<p>Solder pads Gullwing</p> 
<p>SMS J-leads</p>  <p>1 2</p>		<p>1</p> 	<p>2</p> 	<p>Solder pads J-leads</p> 
<p>Buttons in variable heights</p> 		<p>Overall height h variable</p> 		<p>Drilling diagram through hole</p> 
<p>PMS Through hole mounting</p>  <p>1 2</p>		<p>1</p> 	<p>2</p> 	<p>Circuit diagram</p> 
<p>PMS height variable</p> 		<p>Overall height h variable</p> 		<p>Circuit diagram</p> 
<p>PMK</p>  <p>Shape 1 Shape 2</p>		<p>Shape 1</p> 	<p>Shape 2</p> 	<p>Circuit diagram</p> 

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.		30V AC / 42V 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 / 10s 215 °C / 40s 260 °C / 10s	260 °C / 10s 350 °C / 10s	260 °C / 10s 350 °C / 10s
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 SMS		Variations				Part Number	
Gullwing-leads 	Degree of protection	IP 40		1241.1600.XX			
		IP 67		1241.1606.XX			
J-leads 	Degree of protection	IP 40		1241.1601.XX			
		IP 67		1241.1607.XX			
Gullwing-leads 	Degree of protection	IP 40		1241.1612.XX			
		IP 67		1241.1618.XX			
J-leads 	Degree of protection	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 separately) 	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 +6mm) are necessary. Order separately.							
PMS		Variations				Part Number	
Short actuator 	Degree of protection	IP 40		1241.1602			
		IP 67		1241.1608			
Long actuator 	Degree of protection	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 	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 PMK		Variations	Part Number
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 Insert plate Key cap Base module	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 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	
Shape 2 Key cap Base module	Color of insert plate without legend shape 1	yellow = 091	grey = 096
		orange = 092	black = 097
		red = 093	white = 098
		blue = 094	anthracite = 099
		green = 095	
Illumination key cap 	In Preparation		0859.9335
	Color of key cap	transparent	

Auftragsbezogene Fertigung / Order specific production



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