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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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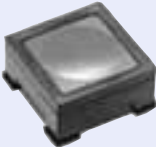
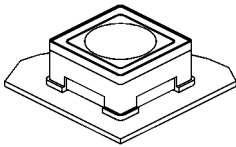
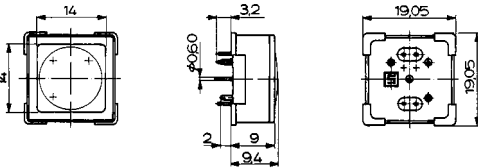

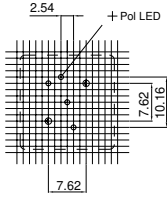
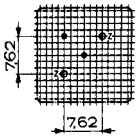

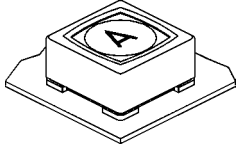
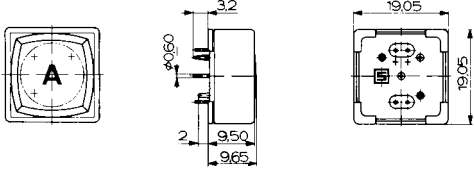
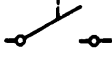
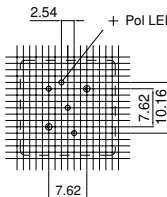
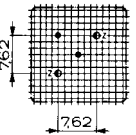

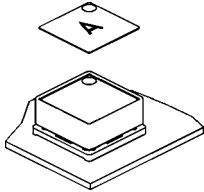
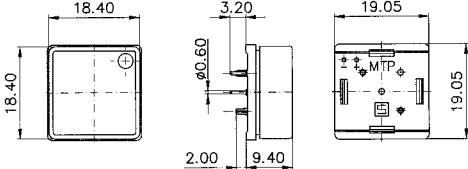

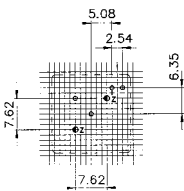

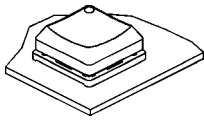
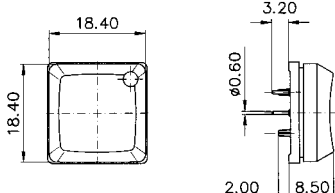
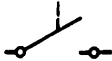
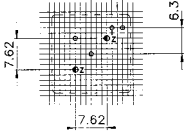
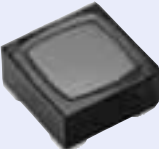
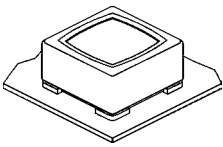
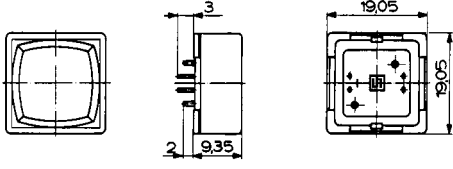

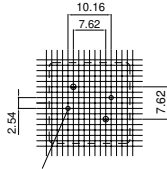
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Taster MTG, MCS, MTP und MTL $\frac{3}{4}$ "

Switches in momentary action MTG, MCS, MTP and MTL $\frac{3}{4}$ "

Ausführungen Models	Aufbau Construction	Abmessungen Dimensions	Schaltsymbol Circuit diagram	Bohrplan Drilling diagram
MTG $\frac{3}{4}$ " 				beleuchtet illuminated  + Pol LED unbeleuchtet non-illuminated 
MCS $\frac{3}{4}$ " 				beleuchtet illuminated  + Pol LED unbeleuchtet non-illuminated 
MTP $\frac{3}{4}$ " 				Z=Zentrierbohrung $\circ \phi 1^{+0.1}$ $\bullet \phi 1.3^{+0.1}$ 
MTP $\frac{3}{4}$ " 				
MTL $\frac{3}{4}$ " Beleuchtungselement Indicator 				beleuchtet illuminated  + Pol LED $\diamond = \phi 1^{+0.1}$ $\bullet = \phi 1.3^{+0.1}$ Z= Zentrierbohrung Bohrplan-Raster $1/20" = 1,27 \text{ mm}$ Z= drilling for location pins drilling diagram $1/20" = 1,27 \text{ mm}$

1. Mechanische Kennwerte / Mechanical data	MTG	MCS	MTP
Betätigungskraft / Actuating force	2 N ±0,5 N	2,9 N ±0,5 N	2,5 N
Schaltweg / Contact travel	0,4 mm ±0,1 mm	0,4 mm ±0,1 mm	IP40: 0,4 mm IP54: 0,3 mm
Endanschlagfestigkeit (DIN 41640 Teil 19) / End stop strength	> 50 N		
Lebensdauer (IEC 512-5 Test 9a, Betätigungskraft 5 N) / Lifetime	> 10 ⁶ Betätigungen / Operations		

2. Elektrische Kennwerte / Electrical data	MTG	MCS	MTP
Kontaktmaterial / Contact material	Gold / Gold	Silber / Silver	
Schaltspannung max. / Switching voltage max.	24 V DC	48 V DC	
Schaltstrom max. / Switching current max.	50 mA	125 mA	
Nennschaltleistung / Rated breaking capacity	0,36 W	2,40 W	
Lebensdauer (bei Nennschaltleistung) / Lifetime (at rated breaking capacity)	> 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. 0,2 ms		

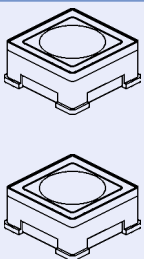
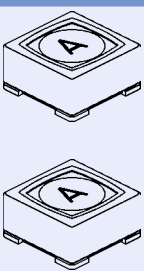
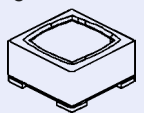
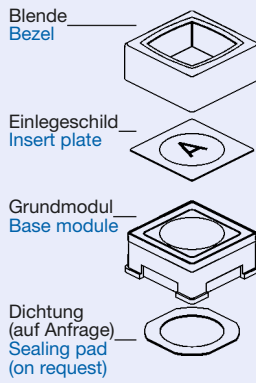
3. Sonstige Kennwerte / Other data	MTG	MCS	MTP	MTL
Schutzgrad / Degree of protection	IP 40	IP 65	IP 40 / IP 65	IP 40
Lötbarkeit / Solderability (IEC 68-2-20 Test Ta, Methode 1A)	235 °C / 2 s	235 °C / 2 s	235 °C / 2 s	
Lötwärmebeständigkeit (IEC 68-2-20 Test Tb, Methode 1A) beleuchtet / illuminated / Soldering heat resistance unbeleuchtet / non-illuminated	260 °C / 3 s 260 °C / 5 s	260 °C / 3 s 260 °C / 5 s	260 °C / 3 s 260 °C / 5 s	260 °C / 5 s
Umgebungstemperatur / Ambient temperature	-25 °C...+85 °C			
Lagertemperatur / Storage temperature	-25 °C...+85 °C			

4. Werkstoffe / Materials	MTG	MCS	MTP	MTL
Kontaktmaterial Gold / Contact material gold	CuZn +2 μm Au			
Kontaktmaterial Silber / Contact material silver	CuZn - 2,5 μm Ag passiviert / passivated			
Sockel / Socket	Thermoplast PES			PBT
Betätiger / Actuator	Thermoplast PC			PMMA

5. LED Kennwerte / LED data	MTG	MCS	MTP	MTL
Siehe Seite 38 / see page 38	925.9299-9301	925.9730-32	925.9299-9301	

Taster MTG, MCS, MTP und MTL 3/4"

Switches in momentary action and indicator

Ausführungen Models MTG 3/4"	Varianten Variations		Artikelnummer Part Number			
	Kontaktmaterial Contact material	Ag	unbeleuchtet non- illuminated	1241.1117		
		Au		1241.1118		
		Ag	beleuchtet illuminated	1241.1115.X		
		Au		1241.1116.X		
MCS 3/4" 	Kontaktmaterial Contact material	Ag	unbeleuchtet non- illuminated	1241.1130.X.XXX		
		Au		1241.1120.X.XXX		
		Ag	beleuchtet illuminated	1241.1132.X.XXX.X		
		Au		1241.1122.X.XXX.X		
MTL 3/4" Beleuchtungselement Indicator 				1241.1119.X.X		
	Farbe der Blende Colour of bezel	rot red		3		
		grün green		5		
		grau grey		6		
		schwarz black		7		
		weiß white		8		
MCS 3/4", MTL 3/4" 	Beschriftung Einlegeschild (Schrifthöhe/ Schriftarten siehe Seite 39) Legend of 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 Colour of insert plate without legend	transparent (unbeschriftet, beleuchtet / transparent (without legend, illuminated)			090		
	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					
Farbe der LED Colour of LED	rot red			1		
	grün green			2		
	gelb yellow			3		

Taster MTP 3/4" Switches in momentary action MTP 3/4"

Ausführungen Models MTP 3/4"		Varianten Variations				Artikelnummer Part Number		
Form 1 Shape 1		IP 40	Kontaktmaterial Contact material		Ag	unbeleuchtet non- illuminated	1241.1153.X.XXX.	
			Au	1241.1163.X.XXX.				
		IP 54			Ag		1241.1154.X.XXX.	
			Au	1241.1164.X.XXX.				
Form 1 Shape 1		IP 40			Ag	beleuchtet illuminated	1241.1150.X.XXX.X	
			Au	1241.1160.X.XXX.X				
		IP 54			Ag		1241.1151.X.XXX.X	
			Au	1241.1161.X.XXX.X				
Form 2 Shape 2		IP 40	Kontaktmaterial Contact material		Ag	unbeleuchtet non- illuminated	1241.1173.X.XXX.	
			Au	1241.1183.X.XXX.				
		IP 54			Ag		1241.1174.X.XXX.	
			Au	1241.1184.X.XXX.				
Form 2 Shape 2		IP 40			Ag	beleuchtet illuminated	1241.1170.X.XXX.X	
			Au	1241.1180.X.XXX.X				
		IP 54			Ag		1241.1171.X.XXX.X	
			Au	1241.1181.X.XXX.X				
		IP 40			Ag	mit LED- Bohrung (ohne LED)	1241.1190.X.XXX.	
			Au	1241.1193.X.XXX.				
		IP 54			Ag	with hole for LED (without LED)	1241.1191.X.XXX.	
			Au	1241.1194.X.XXX.				
Form 1 Shape 1		Farbe der Tastkappe Colour of key cap		rot red			3	
				grün green			5	
				grau grey			6	
				schwarz black			7	
				weiß white			8	
Form 2 Shape 2		Beschriftung Tastkappe/Einlegeschild (Schriftgröße/ Schriftarten siehe Seite 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	
Form 2 Shape 2		Farbe des Einlegeschildes bei unbeschrifteter Ausführung Colour of insert plate without legend		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			
Form 2 Shape 2		Farbe der LED Colour of LED		rot red			1	
				grün green			2	
				gelb yellow			3	