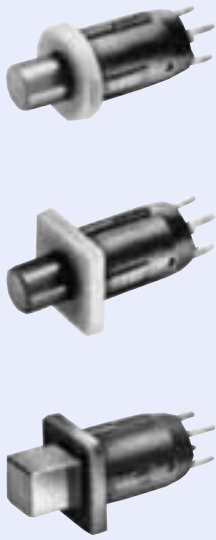
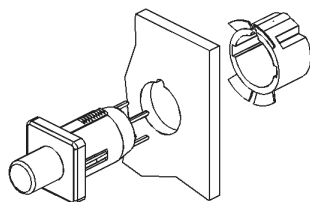
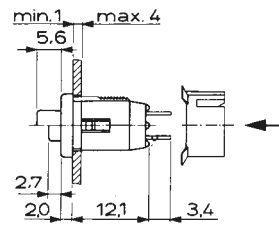
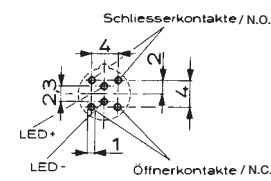
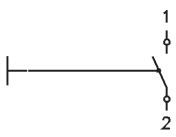
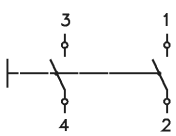
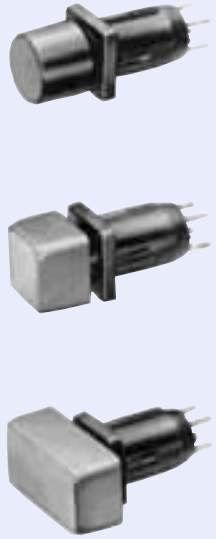
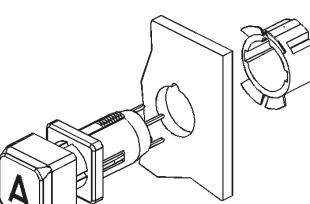
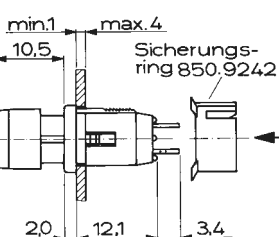
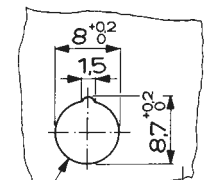
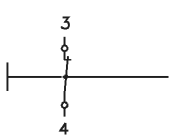
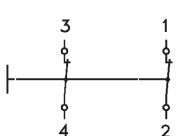
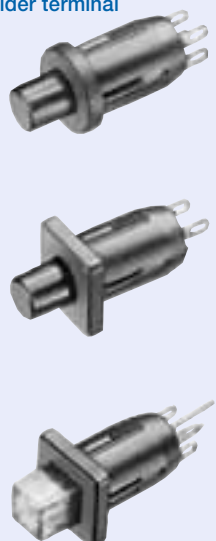
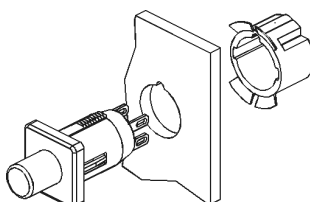
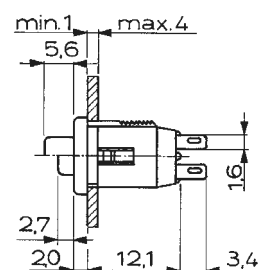
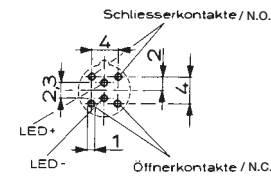
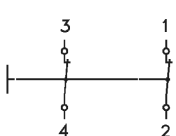


Switches in momentary action LDT, and latching action LDS

Models	Construction	Dimensions	Wiring diagram	Circuit diagram
<p>Small button</p> 	<p>Frontpanel mounting</p> 			<p>NO 1pole</p>  <p>NO 2pole</p> 
<p>Large button</p> 	<p>Frontpanel mounting</p> 		<p>Front panel drilling</p>  <p>Innenfase <math>< 0,2 \times 45^\circ</math> Panel cut out</p>	<p>NC 1pole</p>  <p>NC 2pole</p> 
<p>Small button with solder terminal</p> 	<p>Frontpanel mounting</p> 		<p>Solder terminal version</p> 	<p>NC/NO</p> 

Technical Data LDT, LDS

1. Mechanical data

Actuating force	1,5 N ±0,3 N
Contact travel	1,35 mm ±0,2 mm
End contact travel	2,9 mm ±0,1 mm
(DIN 41640 Teil 19) End stop strength	> 50 N
(IEC 512-5 Test 9a, actuating force 5 N) Lifetime	> 10 ⁵ Operations

2. Electrical data

Switching voltage	min.: 100 mV AC/DC max.: 60 V AC / 50 V DC
Switching current max.	200 mA
Lifetime (rated interrupting capacity 1,2 W)	> 10 ⁵ Cycles
(IEC 512-2, mV-Method) Initial contact resistance, new	< 20 mΩ
Initial contact resistance, after 10 ⁵ cycles	< 25 mΩ
(IEC 512-2) Insulation resistance	> 10 ¹⁰ Ω
Contact bounce time	typ. 0,5 ms

3. Other data

Solderability	IEC 68-2-20 Test Ta, Methode 1	235 °C / 2 s
Soldering heat resistance	IEC 68-2-20 Test Tb, Methode 1A	260 °C / 5 s
Ambient temperature	illuminated non-illuminated	-25 °C...+60 °C -25 °C...+85 °C
Storage temperature	illuminated non-illuminated	-25 °C...+60 °C -25 °C...+85 °C
Degree of protection		IP 40

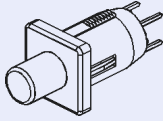
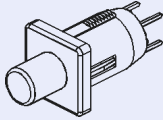
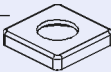
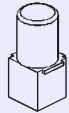
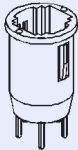
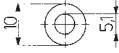




4. Materials

Socket		Thermoplast PES
Button		Thermoplast PC
Contacts	Gold on request	CuZn 37, mit 5 μm Ag
Contact spring		CuBe, mit 5 μm Ag
Terminals		CuZn 37, mit 4 μm SN Pb 40

5. LED data

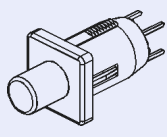
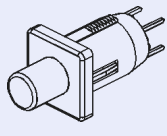
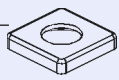
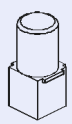

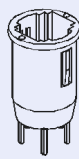
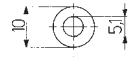
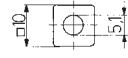
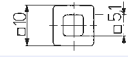

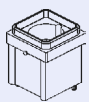
see page 40		0925.9730 0925.9731 0925.9732
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LDT, LDS with small button — non-illuminated

Models	Variations	Part Number
Momentary action 	Switching functions	
	NO 1-pole	0041.9141.X.X.0.X
	NO 2-pole	0041.9142.X.X.0.X
	NC 1-pole	0041.9143.X.X.0.X
	NC 2-pole	0041.9144.X.X.0.X
	NC/NO 1pole	0041.9145.X.X.0.X
Latching action 	Switching functions	
	NO 1-pole	0041.9151.X.X.0.X
	NO 2-pole	0041.9152.X.X.0.X
	NC 1-pole	0041.9153.X.X.0.X
	NC 2-pole	0041.9154.X.X.0.X
	NC/NO 1pole	0041.9155.X.X.0.X
Bezel  Small button  Holder 	Color of small button	
	yellow	1
	orange	2
	red	3
	blue	4
	green	5
	grey	6
	black	7
	white	8
	Shape of bezel and button	
		1
		2
		3
	non-illuminated	0
	Color of bezel	
yellow	1	
orange	2	
red	3	
blue	4	
green	5	
grey	6	
black	7	
white	8	
Mounting accessories  	Securing clip necessary for front panel mounting	0850.9242
	Module holder optional for vertical PCB mounting (only for hand soldering)	0850.9277

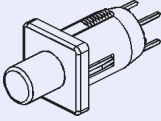
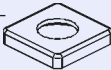
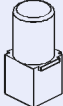

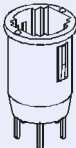
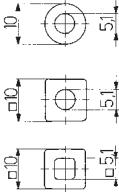


Order specific production

LDT, LDS with small button — illuminated

Models	Variations	Part Number
Momentary action 	Switching functions	
	NO 1-pole	0041.9146. X . X . X . X
	NO 2-pole	0041.9147. X . X . X . X
	NC 1-pole	0041.9148. X . X . X . X
	NC 2-pole	0041.9149. X . X . X . X
	NC/NO 1pole	0041.9150. X . X . X . X
Latching action 	Switching functions	
	NO 1-pole	0041.9156. X . X . X . X
	NO 2-pole	0041.9157. X . X . X . X
	NC 1-pole	0041.9158. X . X . X . X
	NC 2-pole	0041.9159. X . X . X . X
	NC/NO 1pole	0041.9160. X . X . X . X
Bezel  Small button  LED  Holder 	Color of small button	
	yellow	1
	red	3
	green	5
	Shape of bezel and button	
		1
		2
		3
	Color of LED	
	red	1
	green	2
	yellow	3
	Color of bezel	
	yellow	1
	orange	2
red	3	
blue	4	
green	5	
grey	6	
black	7	
white	8	
Mounting accessories  	Securing clip necessary for front panel mounting	0850.9242
	Module holder optional for vertical PCB mounting (only for hand soldering)	0850.9277

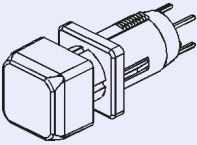
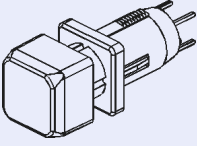
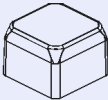
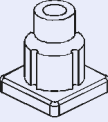
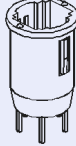







Order specific production

LDS with small button — mechanical indicator

Models	Variations	Part Number	
<p>Latching action</p> 	Switching functions NO 1-pole	0041.9161.9.X.X.X	
	NO 2-pole	0041.9162.9.X.X.X	
	NC 1-pole	0041.9163.9.X.X.X	
	NC 2-pole	0041.9164.9.X.X.X	
	NC/NO 1pole	0041.9165.9.X.X.X	
	<p>Bezel</p>  <p>Small button</p>  <p>Mechanical indicator</p>  <p>Holder</p> 	<p>Clear glass button (only with mechanical indicator)</p>	9
<p>Shape of bezel and button</p> 		1 2 3	
<p>Color of mechanical indicator</p>		red green white	4 5 6
<p>Color of bezel</p>		yellow orange red blue green grey black white	1 2 3 4 5 6 7 8
<p>Mounting accessories</p>  		<p>Securing clip necessary for front panel mounting</p>	0850.9242
		<p>Module holder optional for vertical PCB mounting (only for hand soldering)</p>	0850.9277

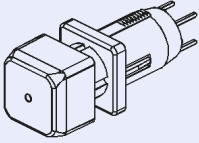
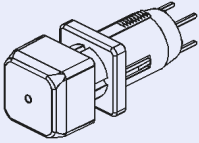
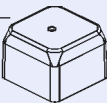
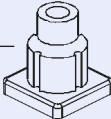

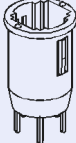
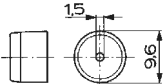
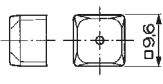
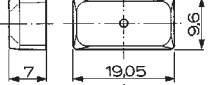
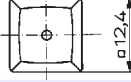


Order specific production

LDT, LDS with large button — non-illuminated/without legend

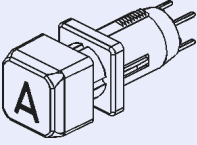
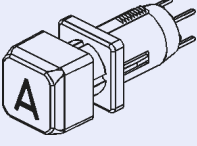
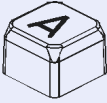
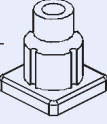
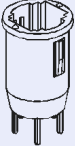


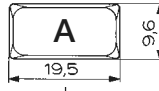
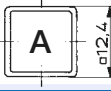
Models	Variations	Part Number	
Momentary action 	Switching functions		
	NO 1-pole	0041.9101.X.X.0.XXX	
	NO 2-pole	0041.9102.X.X.0.XXX	
	NC 1-pole	0041.9103.X.X.0.XXX	
	NC 2-pole	0041.9104.X.X.0.XXX	
	NC/NO 1pole	0041.9105.X.X.0.XXX	
Latching action 	Switching functions		
	NO 1-pole	0041.9121.X.X.0.XXX	
	NO 2-pole	0041.9122.X.X.0.XXX	
	NC 1-pole	0041.9123.X.X.0.XXX	
	NC 2-pole	0041.9124.X.X.0.XXX	
	NC/NO 1pole	0041.9125.X.X.0.XXX	
Large button  Bezel  Holder 	Color of large button		
		yellow	1
		orange	2
		red	3
		blue	4
		green	5
		grey	6
		black	7
		white	8
	Shape of button (without legend)		
			1
			2
			3
		4	
		5	
	non-illuminated	0	
Color of insert plate for button shape 5 only	yellow = 091 orange = 092 red = 093 blue = 094 green = 095	grey = 096 black = 097 white = 098 anthracite = 099	
Mounting accessories  	Securing clip necessary for front panel mounting	0850.9242	
	Module holder optional for vertical PCB mounting (only for hand soldering)	0850.9277	

Order specific production

LDT, LDS with large button — illuminated/without legend

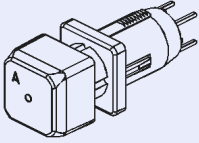
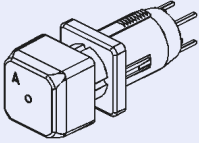
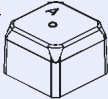
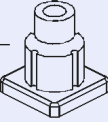

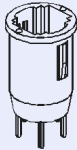
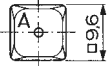
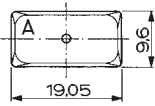
Models	Variations		Part Number
<p>Momentary action</p> 	Switching functions	NO 1-pole	0041.9106.X.X.X.000
		NO 2-pole	0041.9107.X.X.X.000
		NC 1-pole	0041.9108.X.X.X.000
		NC 2-pole	0041.9109.X.X.X.000
		NC/NO 1pole	0041.9110.X.X.X.000
		<p>Latching action</p> 	Switching functions
NO 2-pole	0041.9127.X.X.X.000		
NC 1-pole	0041.9128.X.X.X.000		
NC 2-pole	0041.9129.X.X.X.000		
NC/NO 1pole	0041.9130.X.X.X.000		
<p>Large button</p>  <p>Bezel</p>  <p>LED</p>  <p>Holder</p> 	Color of large button		
		orange	2
		red	3
		blue	4
		green	5
		grey	6
		black	7
		white	8
	Shape of button (without legend)		1
			2
		3	
		4	
Color of LED	red	1	
	green	2	
	yellow	3	
without legend		000	
<p>Mounting accessories</p>  	Securing clip necessary for front panel mounting	0850.9242	
	Module holder optional for vertical PCB mounting (only for hand soldering)	0850.9277	

LDT, LDS with large button — non-illuminated/with legend

Models		Variations		Part Number	
Momentary action 	Switching functions	NO 1-pole		0041.9111.X.X.0.XXX	
		NO 2-pole		0041.9112.X.X.0.XXX	
		NC 1-pole		0041.9113.X.X.0.XXX	
		NC 2-pole		0041.9114.X.X.0.XXX	
		NC/NO 1pole		0041.9115.X.X.0.XXX	
Latching action 	Switching functions	NO 1-pole		0041.9131.X.X.0.XXX	
		NO 2-pole		0041.9132.X.X.0.XXX	
		NC 1-pole		0041.9133.X.X.0.XXX	
		NC 2-pole		0041.9134.X.X.0.XXX	
		NC/NO 1pole		0041.9135.X.X.0.XXX	
Large button  Bezel  Holder 	Color of large button	yellow		1	
		orange		2	
		red		3	
		blue		4	
		green		5	
		grey		6	
		black		7	
		white		8	
	Shape of button				1
					2
					3
					5
		non-illuminated			
Legends for button: shape 1+2 = 001-052 shape 3+5 = 001-072 Type height/face see page 41	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	

Important mounting accessories see page 14

LDT, LDS with large button — illuminated/with legend

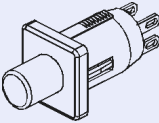
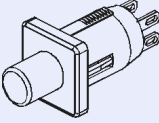
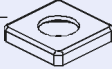
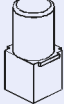
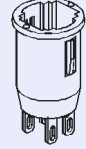
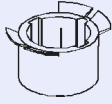
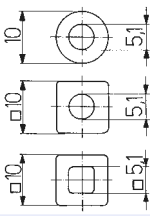

Models	Variations	Part Number
Momentary action 	Switching functions	
	NO 1-pole	0041.9116.X.X.X.XXX
	NO 2-pole	0041.9117.X.X.X.XXX
	NC 1-pole	0041.9118.X.X.X.XXX
	NC 2-pole	0041.9119.X.X.X.XXX
	NC/NO 1pole	0041.9120.X.X.X.XXX
Latching action 	Switching functions	
	NO 1-pole	0041.9136.X.X.X.XXX
	NO 2-pole	0041.9137.X.X.X.XXX
	NC 1-pole	0041.9138.X.X.X.XXX
	NC 2-pole	0041.9139.X.X.X.XXX
	NC/NO 1pole	0041.9140.X.X.X.XXX
Large button  Bezel  LED  Holder 	Color of large button	
	yellow	1
	orange	2
	red	3
	blue	4
	green	5
	grey	6
	black	7
white	8	
Form des Tastknopfes Shape of button		
	2	
	3	
Color of LED		
red	1	
green	2	
yellow	3	

Legends for button: shape 2 = 001-052 shape 3 = 001-072	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	

Important mounting accessories see page 14

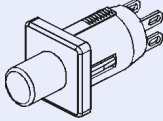
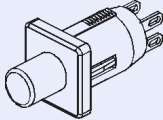
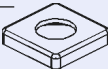
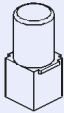


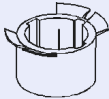
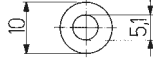

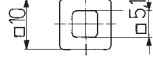

Type height/face see page 41

LDT, LDS: Small button and solder terminals — non-illuminated

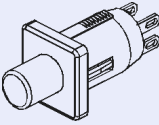
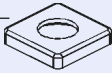
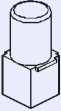

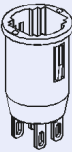
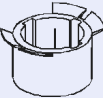
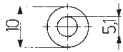
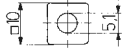
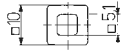

Models	Variations	Part Number
Momentary action 	Switching functions	
	NO 1-pole	0041.8841.X.X.0.X
	NO 2-pole	0041.8842.X.X.0.X
	NC 1-pole	0041.8843.X.X.0.X
	NC 2-pole	0041.8844.X.X.0.X
	NC/NO 1pole	0041.8845.X.X.0.X
Latching action 	Switching functions	
	NO 1-pole	0041.8851.X.X.0.X
	NO 2-pole	0041.8852.X.X.0.X
	NC 1-pole	0041.8853.X.X.0.X
	NC 2-pole	0041.8854.X.X.0.X
	NC/NO 1pole	0041.8855.X.X.0.X
Bezel  Small button  Holder  Securing clip 	Color of small button	
	yellow	1
	orange	2
	red	3
	blue	4
	green	5
	grey	6
	black	7
white	8	
Shape of bezel and button 		1
		2
		3
non-illuminated		0
Color of bezel	yellow	1
	orange	2
	red	3
	blue	4
	green	5
	grey	6
	black	7
	white	8
Mounting accessories 	Securing clip supplied together with soldering type	0850.9242

Order specific production

LDT, LDS: Small button and solder terminals — illuminated

Models	Variations	Part Number	
Momentary action 	Schaltfunktionen Switching functions		
	NO 1-pole	0041.8846 . X . X . X . X	
	NO 2-pole	0041.8847 . X . X . X . X	
	NC 1-pole	0041.8848 . X . X . X . X	
	NC 2-pole	0041.8849 . X . X . X . X	
	NC/NO 1pole	0041.8850 . X . X . X . X	
Latching action 	Switching functions		
	NO 1-pole	0041.8856 . X . X . X . X	
	NO 2-pole	0041.8857 . X . X . X . X	
	NC 1-pole	0041.8858 . X . X . X . X	
	NC 2-pole	0041.8859 . X . X . X . X	
	NC/NO 1pole	0041.8860 . X . X . X . X	
Bezel  Small button  LED  Holder  Securing clip 	Color of small button	yellow 1 red 3 green 5	
	Shape of bezel and button	 1  2  3	
	Color of LED	red 1 green 2 yellow 3	
	Color of bezel	yellow 1 orange 2 red 3 blue 4 green 5 grey 6 black 7 white 8	
	Mounting accessories	 Securing clip necessary for front panel mounting Order specific production	0850.9242

LDT, LDS: Small button and solder terminals - mech. indicator

Models	Variations	Part Number
<p>Latching action</p> 	<p>Switching functions</p> <p>NO 1-pole</p> <p>NO 2-pole</p> <p>NC 1-pole</p> <p>NC 2-pole</p> <p>NC/NO 1pole</p>	<p>0041.8861.9.X.X.X</p> <p>0041.8862.9.X.X.X</p> <p>0041.8863.9.X.X.X</p> <p>0041.8864.9.X.X.X</p> <p>0041.8865.9.X.X.X</p>
<p>Bezel</p>  <p>Small button</p>  <p>Mech. Indicator</p>  <p>Holder</p>  <p>Securing clip</p> 	<p>Clear glass button (only with mechanical indicator)</p> <p>Shape of bezel and button</p>    <p>Color of mechanical indicator</p> <p>red</p> <p>green</p> <p>white</p> <p>Color of bezel</p> <p>yellow</p> <p>orange</p> <p>red</p> <p>blue</p> <p>green</p> <p>grey</p> <p>black</p> <p>white</p>	<p>9</p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p>
<p>Mounting accessories</p> 	<p>Securing clip supplied together with soldering type</p> <p>Order specific production</p>	<p>0850.9242</p>