

DATA PIEZO SWITCHES



BENEFITS

- Long service life, absolute reliability, simple assembly
- No maintenance costs – the switches contain no mechanical parts subject to wear
- Ideal for use in hostile environment
- Wide range of materials, colors, shapes and illumination
- Resistant anodized aluminum with light-fastness factor of 8
- Seawater resistant
- CE certification
- Tested according to MIL standards

		Standard NO	Prolonged signal	Ⓢ-Version	ext. temperature range	HIGH IMPACT ¹⁾
Electrical data:						
Switching voltage max.	[VAC]	42	42	24		42
	[A]	0.1	2.6	0.04	0.15	0.1
Switching current max.	[W]	1	15.6	0.96	0.4	1
Breaking capacity max.	[10 ⁹]	20	20	20	10	20
Lifetime (at rated breaking capacity)	[M Ω]	> 10	> 10	> 10	5	> 10
Insulation resistance (OFF = not actuated)	[Ω]	< 20	< 20	< 20	< 7.5	< 20
Initial contact resistance (ON = actuated)	[pF]	30	30	30	25	30
Capacity	[ms]	20 - 1000	20 - 50.000	20 - 1000	min. 40	20 - 1000
N.O. make impulse time <small>(depending on actuating force, time, speed)</small>						
Contact configuration		free polarity	free polarity	free polarity	poled	free polarity
Mechanical data:						
Min. actuating force	[N]	1.5 - 3	1.5 - 3	1 - 3	0.6	1.5 - 3
Contact travel	[mm]	0.002	0.002	0.002	0.002	0.002
Degree of protection	[IP]	67	67	67	67	67
Max. starting torque	[N/cm]	250	250	250	250	250
	[IK]	IK 02	IK 02	IK 02	IK 02	IK 06
<small>Protection against external mechanical use (DIN EN 50102)</small>						
Climatic data:						
Operating/storage temperature	[°C]	-20 - +60	-20 - +60	-20 - +60	-40 - +85	-20 - +60

1) for pedestrian push button

SUMMARY PIEZO SWITCHES

Mounting diameter:	16	16	16
Switching function:	N.O.	N.O.	N.O.
Housing material:	Plastic (PBT UL 94)	Alu. anodized/stainless steel	Alu. anodized
New selection of rectangular, square, triangular and elliptical housing designs, available in aluminum and stainless steel			
<i>In addition to the standard versions, additional versions as well as laser lettering are available on request</i>	PSE M16	PSE M16	PSE M16 EX

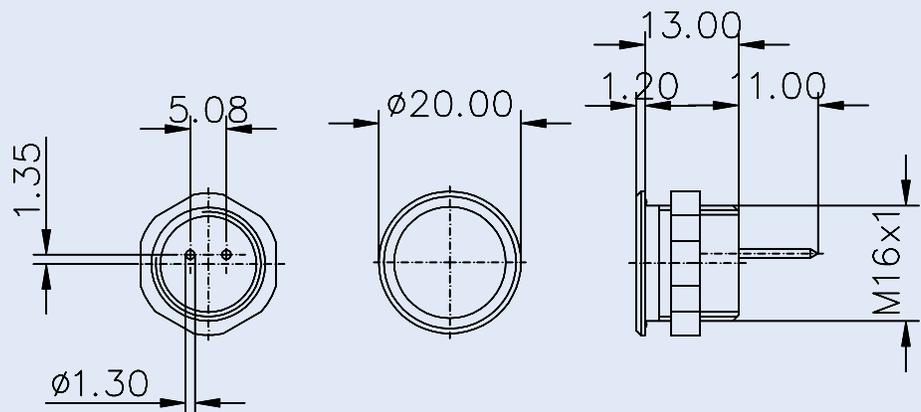
FEATURES

Terminals:	Faston	■		
	Pins	□	□	□
	Wire			
	Clip for pins**	■ ■	■ ■	
Accessories:	All switches are supplied with nut and o-ring seal.			

PART NUMBER

Colour:	Alu natural	1241.2352	1241.2411.8	1241.2415.8
	Gold	■	1241.2411.1.xxx	1241.2415.1.xxx
	Red	1241.2350.xxx	1241.2411.3.xxx	1241.2415.3.xxx
	Blue	■	1241.2411.4.xxx	1241.2415.4.xxx
	Green	■	1241.2411.5.xxx	1241.2415.5.xxx
	Black	1241.2353.xxx	1241.2411.7.xxx	1241.2415.7.xxx
	Stainless steel	■	1241.2611.xxx	

Dimensions:



□ Standard version

■ Various designs can be provided on request see page 17 and 31

** Clip for terminal pins must be ordered separately, item 0098.9207

xxx Specification for lettering see page 35

SUMMARY PIEZO SWITCHES

16	16	16
N.O.	N.O.	N.O.
<i>Alu. anodized</i>	<i>Alu. anodized</i>	<i>Alu. anodized</i>
		
PSE M16 <i>PSE M16 PROLONGED SIGNAL</i>	PSE M16 FASTON	PSE M16 <i>PSE M16 WITH TACTILE FEEDBACK</i>

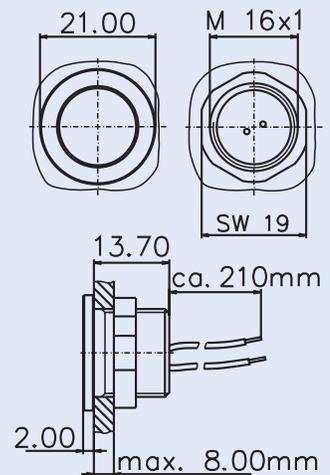
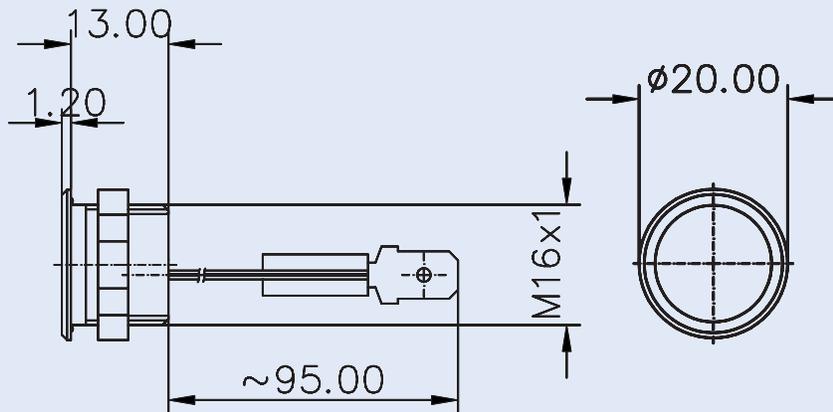
FEATURES

□	□	□ 200 mm
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All switches are supplied with nut and o-ring seal.

PART NUMBER

1241.2434.8	1241.3003	1241.5200.8.093
1241.2434.1.xxx		
1241.2434.3.xxx	1241.3000.xxx	
1241.2434.4.xxx		
1241.2434.5.xxx	1241.3001.xxx	
1241.2434.7.xxx	1241.3002.xxx	



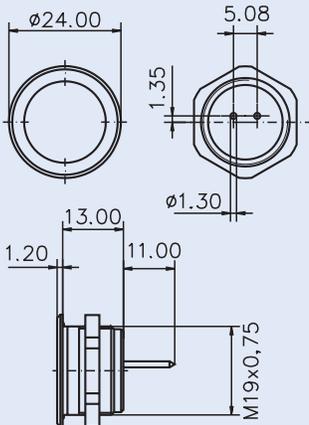
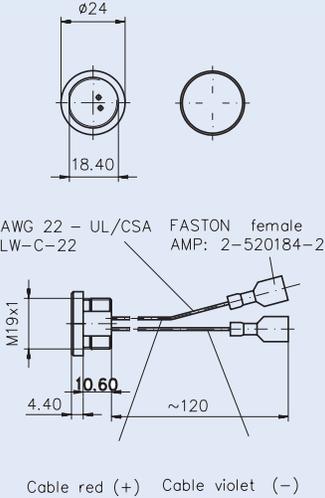
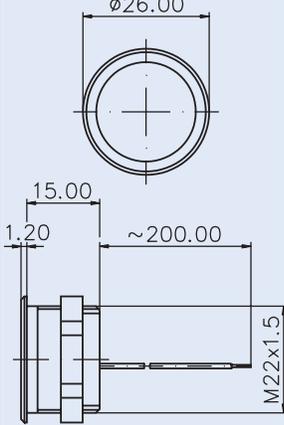
SUMMARY PIEZO SWITCHES

Mounting diameter:	19	19	22
Switching function:	N.O.	N.O.	I.V.
Housing material:	Alu. anodized	Alu. anodized	Alu. anodized
			
<i>In addition to the standard versions, additional versions as well as laser lettering are available on request</i>	M19	M19 ET	PSE M22 TEMPERATURE COMPENSATION

FEATURES

Terminals:	Faston	■	□	
	Pins	□		
	Wire		■	□ 200 mm
	Clip for pins**	■ ■		
Accessories:	All switches are supplied with nut and o-ring seal.			

PART NUMBER

Colour:	Alu natural	1241.3123	1241.5003	1241.3998
	Gold			
	Red			
	Blue			
	Green			
	Black			
	steel	■		■
Dimensions:				

□ Standard version

■ Various designs can be provided on request see page 17 and 31

** Clip for terminal pins must be ordered separately, item 0098.9207

xxx Specification for lettering see page 35

SUMMARY PIEZO SWITCHES

22	27	27
N.O.	N.O.	N.O.
<i>Alu. anodized/stainless steel</i>	<i>Alu. anodized</i>	<i>Stainless steel</i>
		
PSE M22	PSE M27	PSE HIGH IMPACT M27 PEDESTRIAN PUSH BUTTON

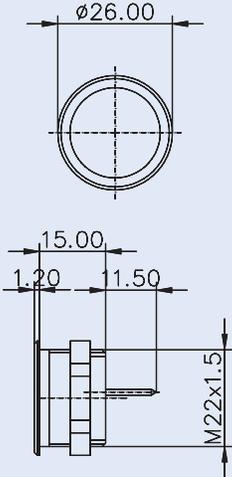
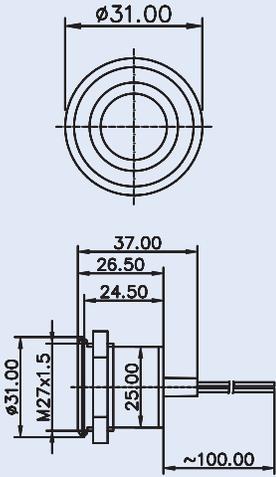
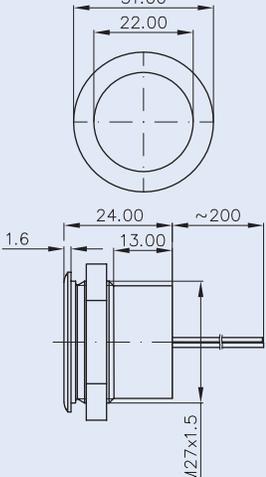
FEATURES

□	□ 100 mm	□ 200 mm
■ ■		

All switches are supplied with nut and o-ring seal.

PART NUMBER

1241.3008	1241.2625.8	
	1241.2625.1.xxx	
1241.3005.xxx	1241.2625.3.xxx	
	1241.2625.4.xxx	
1241.3006.xxx	1241.2625.5.xxx	
1241.3007.xxx	1241.2625.7.xxx	

■		1241.3994.xxx
		

SUMMARY ILLUMINATED PIEZO SWITCHES

Mounting diameter:	16	22	24	27	30
Switching function:	Indicator N.O.	N.O.	N.O.	N.O.	
Housing material:	Alu. anodized	Alu. anodized/stainless steel	Alu. anodized/stainless steel	Alu. anodized/stainless steel	Alu. anodized/stainless steel
<p>In addition to the standard versions, additional versions as well as laser lettering are available on request</p>					
	INDICATOR	PSE M22	PSE M24	PSE M27	PSE M30

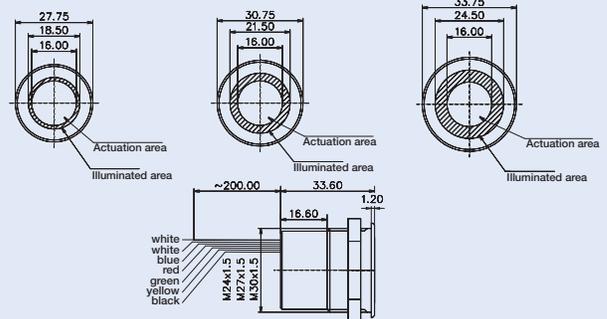
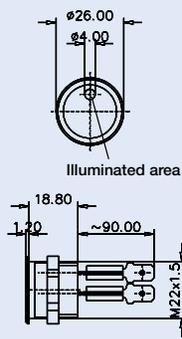
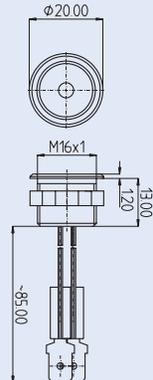
FEATURES

Terminals:	Faston	□	□			
	Pins					
	Wire			x (200 mm)	x (200 mm)	x (200 mm)
	Clip for pins**					
	Illumination	point ill. 2 VDC	point ill. 24 VDC	ring ill. 24 VDC	ring ill. 24 VDC	ring ill. 24 VDC
Accessories:	All switches are supplied with nut and o-ring seal.					

PART NUMBER

Colour:	Alu natural	1241.3033 LED red	1241.3020 LED red	■ LED red	■ LED red	■ LED red
	Alu natural	1241.3034 LED green	1241.3089 LED green	■ LED green	■ LED green	■ LED green
	Alu natural	1241.3035 LED yellow	1241.3047 LED yellow	1241.3010 LED red/green bi-colored	1241.3011 LED red/green bi-colored	1241.3012 LED red/green bi-colored
	Red	1241.3036 LED red	1241.3066.XXX LED red			
	Green	1241.3037 LED green	1241.3167.XXX LED green			
	Gold	1241.3038 LED yellow	1241.3222.XXX LED yellow			
	Stainless steel		■	■	■	■

Dimensions:



- Standard version
- Various designs can be provided on request see page 17 and 31
- ** Clip for terminal pins must be ordered separately, item 0098.9207
- xxx Specification for lettering see page 35

