



SERIES 1080 - MINIATURE SNAP-ACTION SWITCHES

TO 21 (8) A 250 V AC



PRODUCT FEATURES

- The precise mounting of the moving contact part (milled bearing blade) offers optimum snap-action even with slow actuation
- Wide range of ratings from 3 (1) A 250 V AC to 21 (8) A 250 V AC
- Versions with gold plated contacts for signal current applications
- Various auxiliary actuators, two suspension points

ON REQUEST

- Low operating forces (≤ 0.15 N)
- Customized additional actuators
- Plug terminal 4.8 x 0.5 mm

Design	DIN 41635 A
Mechanical life endurance	2E6 (basic type 1080) 20E4 (basic type 1085)
Contact resistance (new condition)	< 100 mOhm (1 A 12 V DC)
Insulation resistance (new condition)	> 100 MOhm (500 V DC)
Proof tracking	250 PTI
Protection type	IP 40 (actuator side)
Ambient temperature	-40 °C ... +125 °C
Flammability	UL 94 V-0
Glow wire test temperature	850 °C
Material actuator additional actuator housing terminals	PETP glass fiber-reinforced stainless steel PA glass fiber-reinforced / PETP glass fiber-reinforced silver plated / CuZn
Bounce time	< 10 ms
Approval marks	 /  / 
Suitable for appliances of protection class II under compliance with the installation conditions required on the equipment side	

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

ECO

PUSH 'N' DRIVE



										
21 (8) A 250 V AC 1E4										
16 (8) A 250 V AC 1E4										
16 (4) A 250 V AC 5E4										
16 (4) A 250 V AC 25E3										
10 (4) A 250 V AC 25E3										
6 (2) A 250 V AC 5E4										
4 (4) A 250 V AC 5E4										
3 (1) A 250 V AC 5E4										
3 (1) A 250 V AC 25E3										
21 A 250 V AC 2 HP										
21 A 125 V AC 1 HP										
16 A 250 V AC 1/2 HP										
16 A 125 - 250 V AC 1/2 HP										
16 A 125 V AC 1/3 HP										
10 A 250 V AC 1/3 HP										
10 A 125 V AC 1/8 HP										
3 A 125 - 250 V AC										
Terminal type										
Terminal description										
Contact material										
Operating force (N)										
Operating position (OP) (mm)										
Difference travel max. (mm)										
Free position (FP) max. (mm)										
Permissible total travel position (TP) (mm)										
Actuator description										
Lever drawing										
Contact distance (mm)										
EN 60335 cap. 30 conform "G"										
Stock version										



Technical drawing of a mechanical part, showing a side view and a front view. The side view includes dimensions: 10.3, 3.1, 20.25, 16.2, 15.9, 3.3, 22.2, 27.8, and a hole diameter of Ø3.1. The front view includes dimensions: 10.3, 4, and 10.

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions in millimeters. The drawing includes a front view and a side view.

Front View Dimensions:

- Overall width: 27.8
- Distance from left edge to center of first hole: 22.2
- Distance from left edge to center of second hole: 3.3
- Distance from left edge to center of third hole: 10.3
- Distance from left edge to center of fourth hole: 3.1
- Distance from center of first hole to center of second hole: 20.25
- Distance from center of second hole to center of third hole: 16.2
- Distance from center of third hole to center of fourth hole: 15.9
- Radius of first hole: $R3.1$

Side View Dimensions:

- Overall width: 10.3
- Distance from top edge to center of hole: 4
- Distance from bottom edge to center of hole: 10

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions in millimeters. The drawing includes a side view and a cross-sectional view.

Dimensions:

- Overall width: 10.3
- Distance from left edge to center of hole: 3.1
- Distance from left edge to center of hole (bottom view): 3.3
- Distance from left edge to center of hole (bottom view): 22.2
- Distance from left edge to center of hole (bottom view): 27.8
- Distance from center of hole to right edge: 20.25
- Distance from center of hole to right edge: 16.8
- Distance from center of hole to right edge: 83.1
- Distance from center of hole to right edge: 11.7
- Distance from center of hole to right edge: 10.9
- Distance from center of hole to right edge: 15.9
- Distance from center of hole to right edge: 4
- Distance from center of hole to right edge: 10.3
- Distance from center of hole to right edge: 4

Technical drawing of a mechanical part, showing a side view and a front view. The side view (left) includes dimensions: 10.3 (height), 3.1 (width), 20.25 (length), 8.4 (width), 15.9 (height), 3.3 (width), 22.2 (length), and 27.8 (length). The front view (right) includes dimensions: 10.3 (height), 4 (width), and 8.2 (height). The part features a central vertical section with a horizontal flange and a small circular feature on the right side.

Technical drawing of a mechanical part, showing a side view and a front view. The side view (left) includes dimensions: 10.3 (height), 3.1 (width), 20.25 (length), 6.2 (length), 15.9 (length), 3.3 (width), 22.2 (length), and 27.8 (length). The front view (right) includes dimensions: 10.3 (width), 4 (width), and 5.75 (height). A hole with a diameter of $\varnothing 3.1$ is indicated in the side view.

⌈ PCB terminal
standing

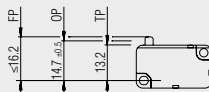


SERIES 1080 - MINIATURE SNAP-ACTION SWITCHES

T0 21 (8) A 250 V AC



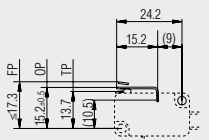
Switching positions



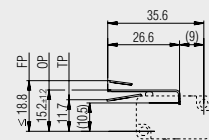
FP: free position
OP: operating position
TP: permissible total travel position



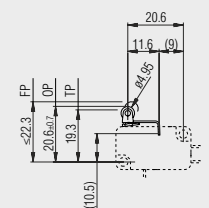
Auxiliary actuators



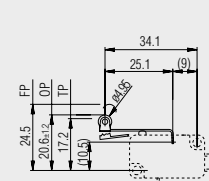
L01: straight lever
191.080.091



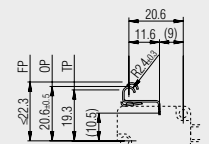
L02: straight lever
191.080.101



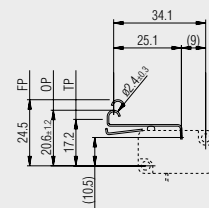
L11: roller lever
191.079.013



L12: roller lever
191.079.023



L21: simulated roller
191.080.451



L22: simulated roller
191.080.471

ROCKER SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

SLIDE SWITCHES

ROTARY SWITCHES

FOOT SWITCHES

TACT AND KEY SWITCHES

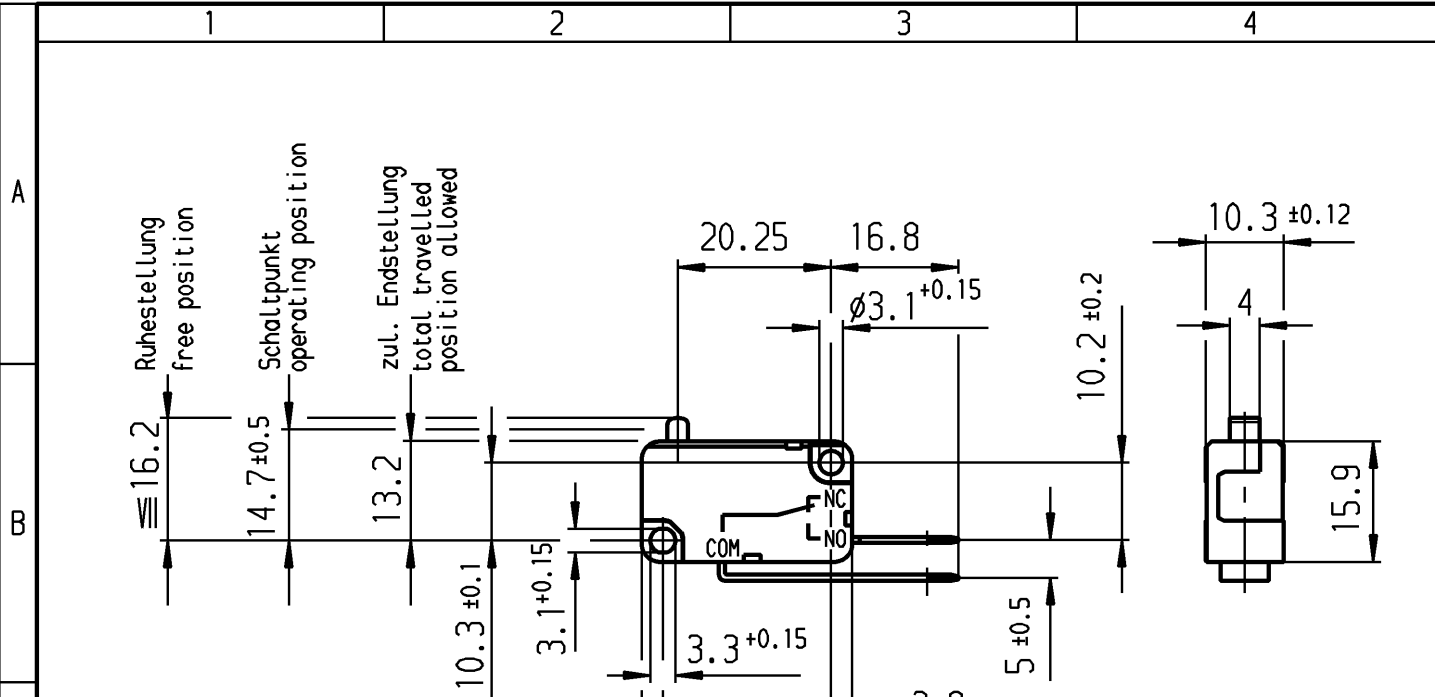
SNAP-ACTION SWITCHES

MICRO-SIGNAL SWITCHES

SENSORS

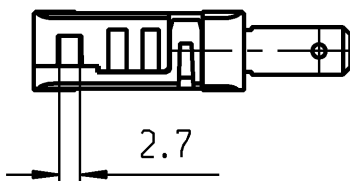
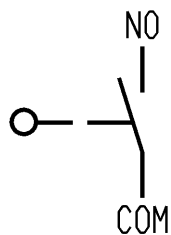
ECO

PUSH'N'DRIVE



VERTRAULICH-CONFIDENTIAL
 © Alle Rechte bei Marquardt GmbH, auch fuer den Fall von Schutzrechtsanmeldungen. Jede Verfuegungsbefugnis, wie Kopier- und Weitergaberecht, bei uns.
 © This document is the exclusive property of Marquardt GmbH. Without our consent, it may not be reproduced or given to third parties.

Flachstecker
 plug-in 6,3 x 0,8
 EN 61058 / EN 61210 / DIN 46244



**Aufschrift
 Marking**

MARQUARDT (M)

1080 µ 40T125
 3(1)/250~50E3



3A 125-250V AC
 R132



Herstelljahr/-woche nach
 year and week of production acc. to DIN EN 60062

auf Verpackung
 on packaging 8 707 200 011

**Schließer 1-polig
 SPNO**

Schalt-Betätigungkraft
 actuating force ≤ 1.0 N

Rückschaltkraft
 release force ≥ 0.3 N

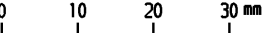
Differenzweg
 movement differential ≥ 0.3 mm

Schutzklasse nach DIN 40 050
 protection class IP 40

Kontakte vergoldet
 contacts gold plated

Beim Einbau geeignete isolierte Steckhülsen verwenden
 For mounting suitable insulated sleeve must be used

Konform nach IEC 60335
 matching IEC 60335

Allgemeintoleranzen/UNTOLERANCED DIMENSIONS						PROJECTION 		Pause COPY	Blatt SHEET		K	Zeichn./DRAWING NO. 1080.0585
Für Längen und Radien FOR LENGTHS AND RADII. ±	Abmaße in mm Für Nennmaßbereich in mm ALL DIMENSIONS ARE IN MILLIMETRES			Für Winkel FOR ANGLE ± 2°					Original DIN	Maßstab SCALE		
	bis/UP TO 6	über/OVER 6 bis/UP TO 30	über/OVER 30			A4	1:1					
d	32888	04.12.01	vor	i						Schnappschalter Snap Action Switch		
c	24233	15.01.98	gc	h				gez./DRAWN BY 15.12.95 gue				
b	25386	24.09.97	gc	g								
a	24777	04.03.97	gc	f	63606	10.07.09	mtr					
				e	60742	31.10.08	mp	Ersatz für/REPLACEMENT OF		MARQUARDT Marquardt GmbH, D-78604 Rietheim-Weilheim		
Ausg. ISSUE	Anderung REVISION	gez. DRAWN BY		Ausg. ISSUE	Anderung REVISION	gez. DRAWN BY						

Schnappschalter
 Snap Action Switch