



Safety switch SGP-TW

- ▶ 2 actuating heads made of metal
- ▶ Simultaneous monitoring of two safety guards
- ▶ Cable entry M20 x 1.5
- ▶ Lock function optional



Lockfunction

If the switch has a lock function, the drive's safety circuit can be opened and retained in this position. In this way unintentional starting of the system can be prevented.

The lock function setting is indicated in the window.

Two keys are included.

Approach direction



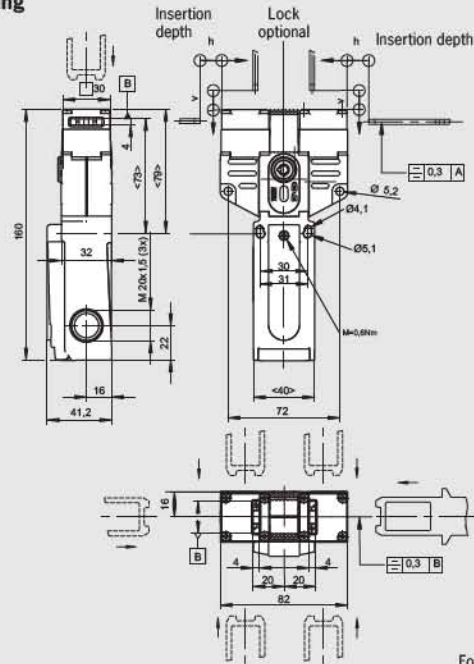
Horizontal and vertical
Can be adjusted in 90° steps

Switching elements

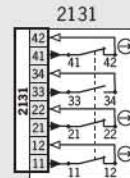
- ▶ **2131** Slow-action switching element
3 NC ⊖ + 1 NO

Cable entry M20 x 1.5

Dimension drawing



Wiring diagrams Actuator inserted




Ordering table


Series	Connection	Switching element	Version	Order No. / Item
SGP-TW	1 Cable entry 3 x M20 x 1,5	2131 3 NC ⊖ + 1 NO		100 809 SGP-TW-1E-2131AC-M
			with lock function (identical locking)	099 900 SGP-TW-1E-2131AC-M-S1


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The technical data on switches and switching elements apply to all connections. Further technical data are given for the connection selected.

Switch				
Parameter			Value	Unit
Material	Housing		Reinforced thermoplastic	
	Actuating head		Die-cast aluminum	
	Cam in actuating head		Stainless steel	
Mechanical life			1 x 10 ⁶ operating cycles	
Ambient temperature			- 20 ... + 80	°C
Weight			approx. 0.32	kg
Max. approach speed			20	m/min
Actuating force			25	N
Extraction force			25	N
Retention force			10	N
Insertion depth (minimum required travel + permissible overtravel)			Actuator S standard	
Approach direction side (h)			24.5 + 5	mm
Approach direction from top (v)			24.5 + 5	mm

Switching element				
Parameter			Value	Unit
Switching principle			Slow-action switching element	
Switching elements with 4 switching elements			2131 3 NC \ominus + 1 NO	
Switching current, min., at DC 24 V			1	mA
Switching voltage, min., at 10 mA			12	V
Contact material			Silver alloy, gold flashed	

Connection, cable entry M20 x 1.5				
Parameter			Value	Unit
Connection			Screw terminal	
Version			M20 x 1.5	
Conductor cross-section			0.34 ... 1.5	mm ²
Degree of protection according to IEC 60529			IP 67	
Rated insulation voltage U _i			250	V AC/DC
Rated impulse withstand voltage U _{imp}			2.5	kV
Conventional thermal current I _{th}			4	A
Short circuit protection according to IEC 60269-1 (control circuit fuse)			4	A gG
Utilization category to IEC 60947-5-1	AC-15		I _e 4 A U _e 230 V	
	DC-13		I _e 4 A U _e 24 V	