

The new AP Tech vibroswitches combine piëzo electric vibration sensors with vibration monitoring capabilities in a very small and robust housing. The SV0x vibro switches are 2-wire systems and can drive cables up to 100 metres. The SV01-02 is capable of transmitting the RMS vibration levels over the standard 2–20mA current interface. Vibroswitches are delivered pre-programmed or settings can be done using the optional SVprog programming device.

Vibroswitch		SV01	SV01-01	SV01-02
Parameter	Unit			
Frequency range (+/- 1 dB)	Hz	3 to 1,000	3 to 1,000	3 to 1,000
Measurement range & threshold range	mm/s	1-20/0.1 20-40/0.2 40-60/0.3 60-80/0.4 80-100/0.5 100-120/0.6 120-140/0.7 140-160/0.8 160-180/0.9 180/200/1.0 * ¹	1-20/0.1 20-100/0.5 100-200/1.0 * ¹	1-20/0.1 20-100/0.5 100-200/1.0 * ¹
Threshold accuracy	%	+/-3	+/-3	+/-3
Threshold hysteresis	%	6	6	6
Power-up time	s	<10	<10	<10
Signal threshold delay	s	0-9* ¹	0-9* ¹	0-9* ¹
Relay action		latching – non-latching	latching – non-latching	latching – non-latching
Start-up delay (after power-up or non-latching)	s	0 or 20* ¹	0 or 20* ¹	0 or 20* ¹
Transverse sensitivify	%	<5	<5	<5
Temperature range (overall accuracy +/- 5%)	°C	-40 to + 85	-40 to + 85	-40 to + 85
Relay - switching current	mA	15 - 500	15 - 500	15 - 500
Relay - power required	V	20 to 30	20 to 30	20 to 30
Relay – voltage drop	V	<4 @ 15mA <7@ 500mA	<4 @ 15mA <7@ 500mA	<4 @ 15mA <7@ 500mA
Relay – position		open/close* ¹	open/close* ¹	open/close* ¹
Relay – leak current in open position	mA	<1.5	<1.5	<1.5
Output range	mm/s	-	-	0.2-20 0.4-40 0.6-60 0.8-80 1-100 1.2-120 1.4-140 1.6-160 1.8-180 2-200 * ²
Output current conversion coefficient (4-20mA)	mA to mm/s	-	-	0.8 0.4 0.27 0.16 0.13 0.11 0.1 0.09 0.08 * ²
Housing material		Stainless steel	Stainless steel	Stainless steel
Weight	gram	120	120	120
Notes		- 2-wire system		- 4-wire system - RMS – current conversion

*¹ to be specified when ordering
*² automatically selected based on threshold

