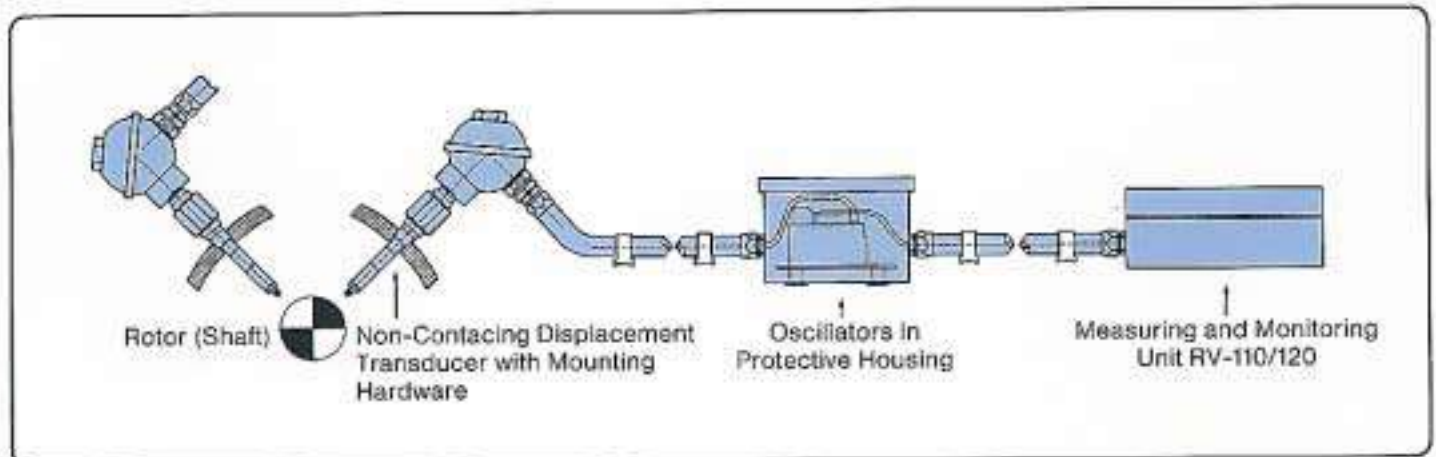


Fig 14: VIBROCONTROL RV-110 with displacement transducers, oscillator (in protective housing) and analog meter



Fig 15: The components of VIBROCONTROL 1000, Series R



Technical Data

Measuring/ Monitoring Unit

Electronic	RV-110 RV-116	RV-120 RV-126
Measured Parameter Dual channel operation (X, Y) Single channel operation (X)	Displacement $v_{s,max}$ according to VDI 2059 s_p	Displacement Max (X, Y) according to API 670 s_{pp}
Input Signal	2 (X and Y), non-contacting displacement transducers of the SD-... and IN-... Series	
Frequency Range	2 ... 5000 Hz (-3 dB)	
Measuring Range	0 ... 20/50/100/200/ 500 μ m	0 ... 75/125/250/400/ 500 μ m
Analog Output	0/4 ... 20 mA and 0 ... 10 V working resistance \leq 500 Ω / - Load resistance \geq 100 k Ω	
Limits Adjustment range	2 10 ... 100 % of measuring range	
Response Delay Limit 1 Limit 2	0.03/1/3/10 s 0.03/1/3/10 s	
Limit Relays Contact rating	2 (single pole) AC 400 VA/250 V DC 10 ... 100 W	
Self-Monitoring¹⁾	yes	
Supply voltage RV-110, RV-120 RV-116, RV-126	AC Voltage: 230/115 V (+10 ... -15%) 50/60 Hz DC Voltage: 24 V (15 ... 40 V)	
Operating Conditions	Operating temperature range -30 ... +65°C Storage temperature range -40 ... +100°C Relative humidity max. 95%, non-condensing	
Housing Construction	Sturdy aluminum housing meeting IP 65, painted RAL 7032, with cable feed-through fittings	
Weight	ca. 4.5 kg	

¹⁾ Self-Monitoring: A separate, normally energized "OK-Relay" monitors transducer gap voltage, cable, and power supply for possible faults.

Dimensions

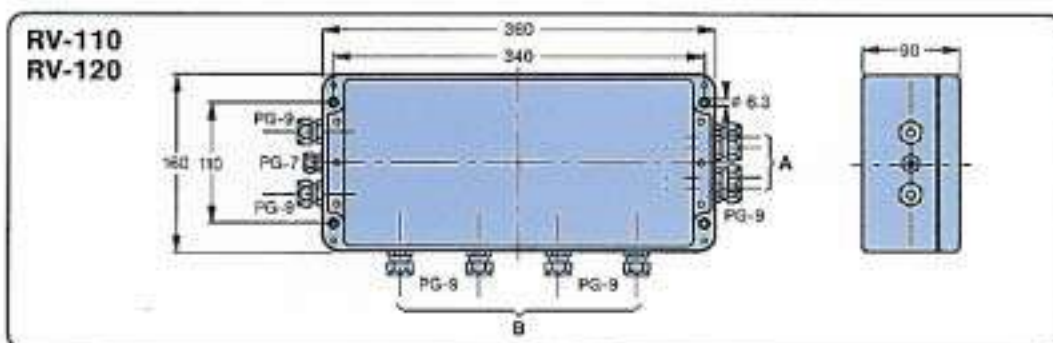


Fig 16:
A: Types RV-110, 116
B: Types RV-120, 126

Ordering Information VIBROCONTROL Series R (Measured Parameter s_{max})

A Monitoring Unit
RV-

1	1	0	Power supply 230/115 V ac
1	1	6	Power supply 24 V dc

I Limit Relay 2

1	Normally de-energized
2	Normally energized

B Measured Parameter

1	s_{max} (dual channel operation)
2	Peak value of X (single channel operation)

J Limit Relay 2

1	Latching
2	Non-latching

C Input Sensitivity

8	0	-8.0 mV/ μ m
4	0	-4.0 mV/ μ m
		-xx mV/ μ m ($4.0 \leq xx \leq 10$)

K Response Delay, Limit 1

1	1 sec
2	3 sec
3	10 sec
4	30 ms

D Measuring Range

1	0 ... 100 μ m
2	0 ... 20 μ m
3	0 ... 50 μ m
4	0 ... 200 μ m
5	0 ... 500 μ m

L Response Delay, Limit 2

1	1 sec
2	3 sec
3	10 sec
4	30 ms

E Analog Output

1	0 ... 20 mA and 0 ... 10 V
2	4 ... 20 mA and 0 ... 10 V

M Power Supply

1	230 V	50/60 Hz
2	115 V	50/60 Hz
3	24 V	DC (only for RV-118)

F Limit set to Customer Specification

1	no
2	yes, to this value: Lim 1 = ... / Lim 2 = ...

N Tropical Protection

1	no
2	yes

G Limit Relay 1

1	Normally de-energized
2	Normally energized

H Limit Relay 1

1	Latching
2	Non-latching

O Special Requirements

0	no
1	yes, as follows:

Factory default setup

► **RV-**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Control count																
1	1	0	/	1	/	8	0	/	1	/	2	/	1	/	1	/	1	/	1	/	1	/	1	/	0	/	2	0	3		
1	1	6	/	1	/	8	0	/	1	/	2	/	1	/	1	/	1	/	1	/	1	/	3	/	1	/	0	/	2	1	1

Customer-specific setup

1	1	/		/		/		/		/		/		/		/		/		/		/		/					
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Non-contacting displacement transducers, their installation hardware and use in hazardous environments is described in brochure BV-P 1001/e.

