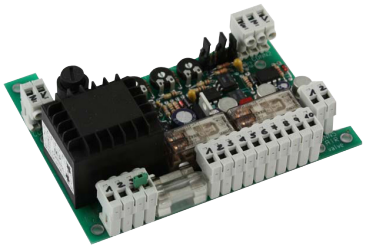
Electronic Controller for NPN-PNP sensor

PRX99

110V 230V | NPN PNP | Allarm

General

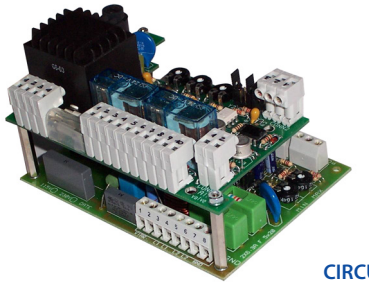
The PRX99 electronic vibrator stop circuit can be used to stop round electromagnetic vibrators or electromagnetic vibratory hoppers through mechanical, inductive, capacitive or optical (photocells) sensors with NPN or PNP outputs. the circuit also features 2 timed delays 0-12 sec. which are adjustable, for stop and start of the vibrator.



CIRCUIT
PV PRX99 A2 STD

Applications

The PRX99 electronic vibrator stop circuit can be used in various configurations, such as:
1) for controlling overflow of a vibratory chute at the output of a round vibrator.
2) for controlling the loading in a round vibrator from a hopper by means of mechanical level indicators.
3) for energizing readout photocells instead of the mechanical device used as level sensor.
4) delay for alarm absance pieces - red led.
5) supply EV air blow (24Vcc) with delay (2 sec.)
6) delay on vibrator (0-12 sec.) - delay off vibrator (0-12 sec.)
7) pover supply 24Vca - 0.1A max.



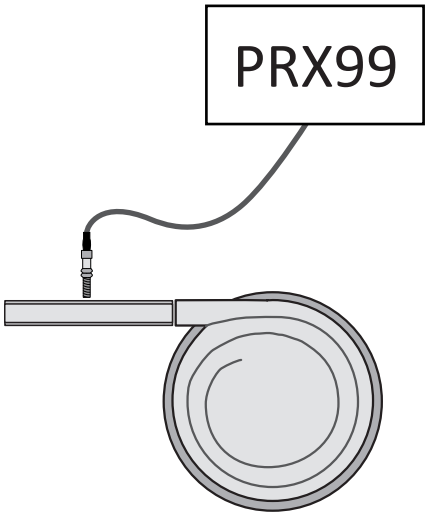
CIRCUIT R5FC+PRX99
PV R5P99 A2 STD

Options

Circuit PRX99 with external regulation by potentiometers-code PRX99/PEX.

Electrical Characteristis

Supply Voltage:	230 Vca ± 5% – 50/60 Hz
Consumption:	1,5 W max
Fuses:	0,2A F 250V 5x20 H1500A
Inputs For Sensors:	Optoisolated NO/NC NPN/PNP
Type Of Sensors:	Mechan.Inductive.Capacitive Or Optical
Supply Voltage For Sensors:	12 Vcc
Energization Delay (T1):	0-12 Sec. Reg
De-energization Delay (T2):	0-12 Sec. Reg.
Output For Vibrator Stop:	2 NO/NC 10A 250Vca Max
Position Of Assemblage:	Horizontal Or Vertical
Temperature Of Storage:	-10 °C /+80 °C
Temperature Of Operation:	–5°C / +55°C
Range Of Relative Humidity:	80% Till To 31 °C
Altitude:	Till To 2000 Meters
Delay Alarm:	0-30 sec
Supply Voltage EV air blow:	24Vcc
Delay Voltage EV air blow: :	2 sec.



Available Versions

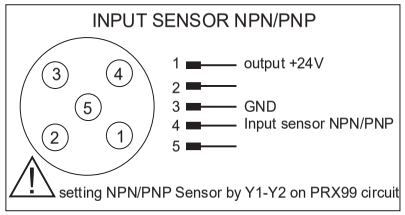
Type	Box	Colour	Dimensions	Code	Price €
PRX99	Circuit for sensor with trimmers		95 x 65 x 35	PV PRX99 A2 STD	
PRX99/PEX	Circuit for sensor with external potentiometers		95 x 65 x 35	PV PRX99 A2 PEX	
R5F+PRX99	Circuit R5F+PRX99		125 x 90 x 60	PV R5P99 A2 STD	

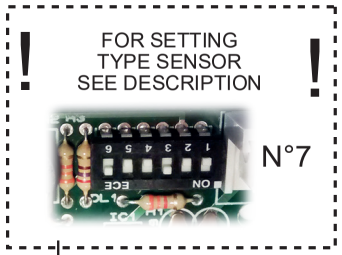
MPJ ELETTRONICA
QUALITY VIBRATION CONTROL

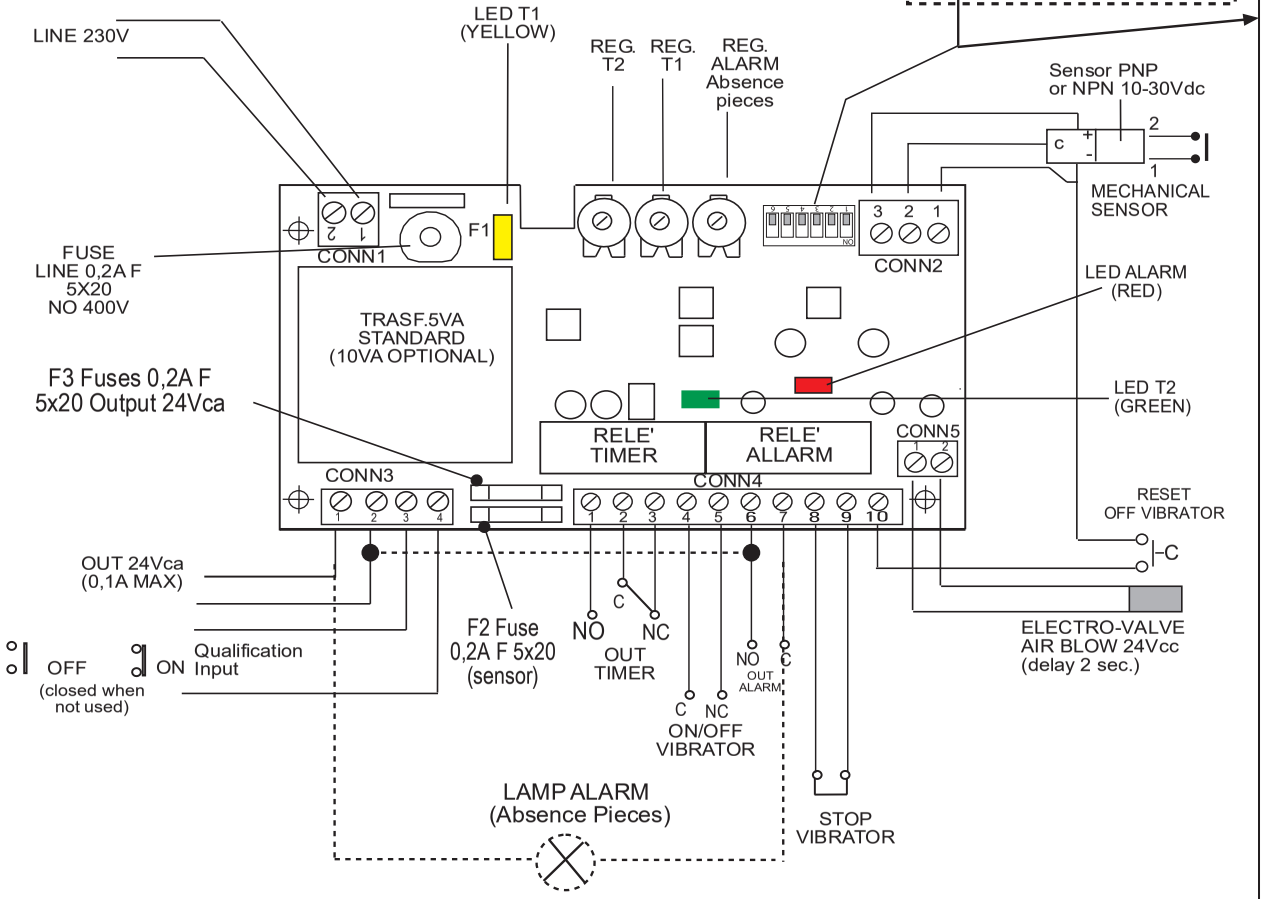
CODE	REV	DATE	DRAFTSMAN	SHEET
DTPRX99	02	10/15	E. PEDRAZZI	1/1

Description: INTERFACE CIRCUIT FOR SENSOR PRX99 WITH ALARMS

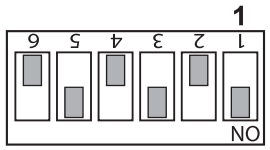
NOTE: Use for qualification input for the stop vibrator input and for the reset of it, free voltage contacts.



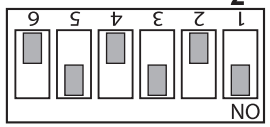




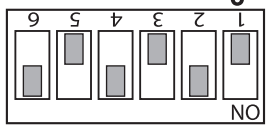
T1 = Delay ON T2 = Delay OFF



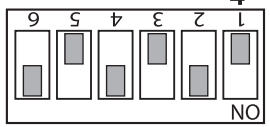
NPN SENSOR
OUT Q
PRESENCE PIECE
START CICLE T1/T2



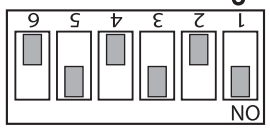
NPN SENSOR
OUT QN
ABSENCE PIECE
START CICLE T1/T2



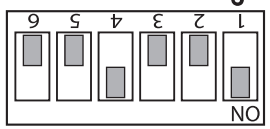
PNP SENSOR
OUT Q
PRESENCE PIECE
START CICLE T1/T2



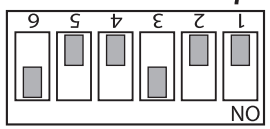
PNP SENSOR
OUT QN
ABSENCE PIECE
START CICLE T1/T2



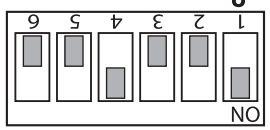
MECHANICAL SENSOR
LEVEL
ABSENCE PIECE
START CICLE T1/T2



NPN SENSOR
OUT Q
ABSENCE PIECE
START CICLE T1/T2



PNP SENSOR
OUT Q
ABSENCE PIECE
START CICLE T1/T2



NPN SENSOR
OUT QN
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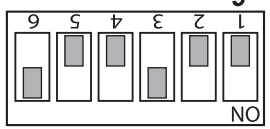
START CICLE T1/T2



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PRX