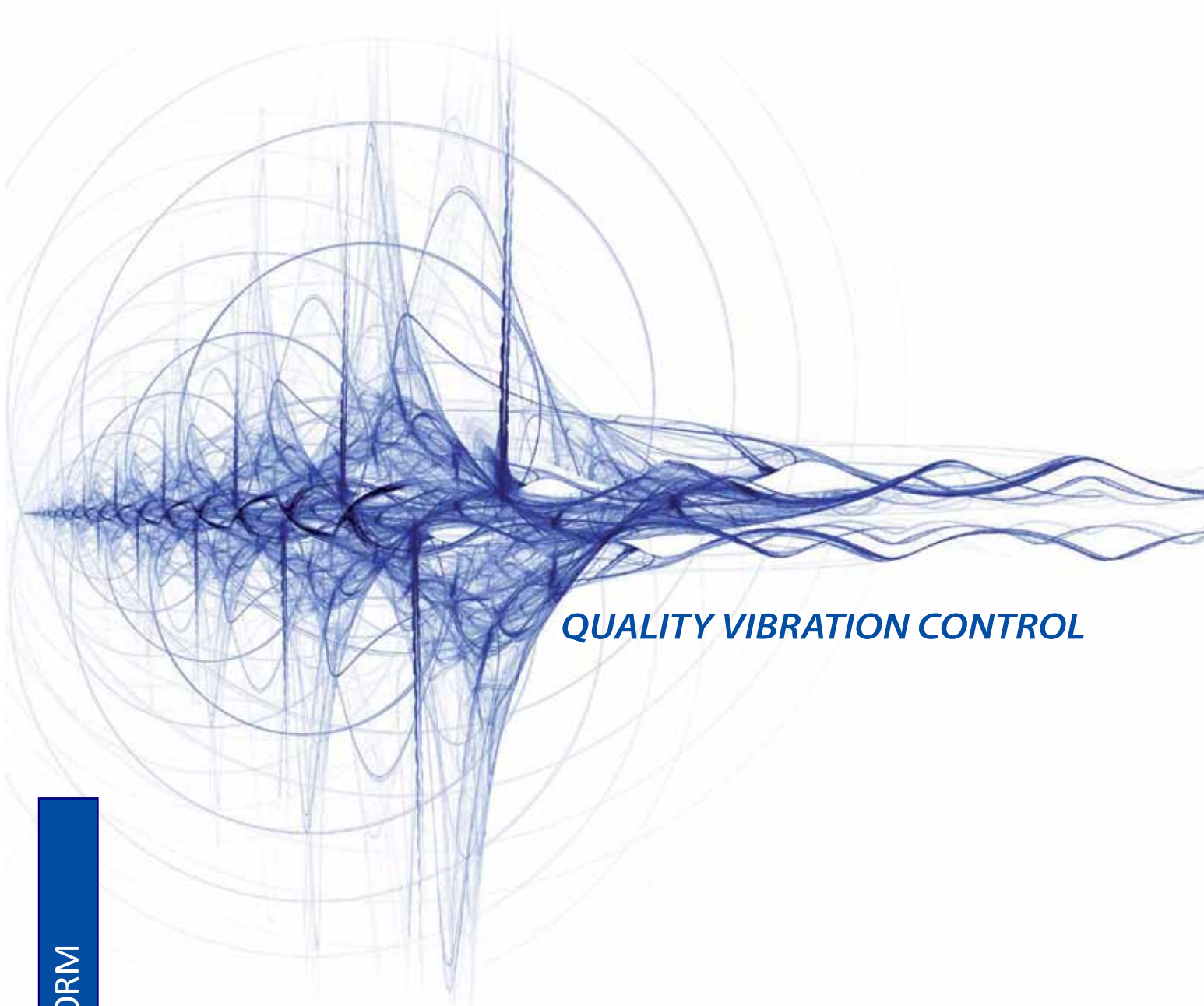


**TUXEL®**

**Quality Vibration Control by MP Elettronica**



*QUALITY VIBRATION CONTROL*

SHORT FORM

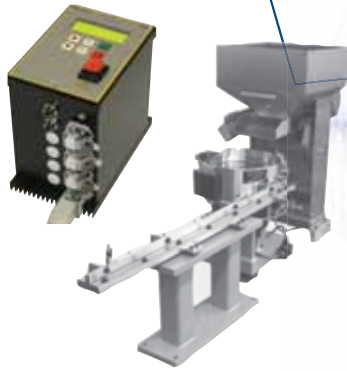
# CONTROLLERS FOR INDUSTRIAL ELECTROMAGNETIC VIBRATORS

SELECTIONING

POSITIONING

FEEDING

MANUFACTURING



With the controllers Tuxel by MP Elettronica



RELIABILITY

CREATIVITY

FLEXIBILITY

INNOVATION

TRADITION

Controllers for Electromagnetic  
Vibrators

since 1985



**“ALWAYS ONE STEP AHEAD”**

## SMART SERIES

### ▶ R3FC

**3/4A****115V  
230V****IP 65****Electronic Stabilized Circuit**

Voltage : 115V/230V • 50/60Hz • current max 3/4A rms

Features : ON/OFF • 3000/6000 V/min • min/max • ramp

Applications : linear feeders • small bowl feeders up to 4A

Options : IP65 (NEMA4/4X) • box aluminum • sensor NPN/PNP

Dimensions : 100 x 100 x 50 mm



### ▶ RM3

**3/4A****115V  
230V****IP 65****Electronic Stabilized Circuit**

Voltage : 115V/230V • 50/60Hz • current max 3/4A rms

Features : ON/OFF • 3000/6000 V/min • min/max • ramp

Applications : linear feeders • small bowl feeders up to 4A

Options : custom label

Dimensions : 100 x 100 x 50 mm



### ▶ R3FSC

**4/5A****115V  
230V****IP 65****Electronic Stabilized Circuit**

Voltage : 115V/230V • 50/60Hz • current max 4/5A rms

Features : 2 ON/OFF • 3000/6000 V/min • Overload • min/max • ramp

Applications : linear feeders • bowl feeders up to 5A

Options : NEMA 4/4X • vertical assembly DIN35

Dimensions : 115 x 140 x 60mm



### ▶ R5FC

**6/8A****115V  
230V****IP 65****Electronic Stabilized Circuit**

Voltage : 115V/230V • 50/60Hz • current max 6/8A rms

Features : 2 ON/OFF • 3000/6000 V/min • Overload • min/max • ramp

Applications : linear feeders • bowl feeders up to 6/8A

Options : IP65 (NEMA 4/4X) • box alum. • DIN35 • sensor NPN/PNP

Dimensions : 130 x 165 x 70mm



### ▶ VBS06

**6A****230V****IP 65****Electronic Stabilized Circuit**

Voltage : 115V/230V • 50/60Hz • current max 6A rms

Features : 2 ON/OFF • 3000/6000 V/min • min/max • ramp

Applications : linear feeders • bowl feeders up to 6A

Options : NEMA4/4X • plastic box • custom label DIN35

Dimensions : 140 x 165 x 65mm





## SMART SERIES

### ▶ RS96C

**6A**
**115V  
230V**
**IP 65**
**Electronic Stabilized Circuit**


**Voltage :** 115V/230V • 50/60Hz • current max 6A RMS

**Features :** 3 ON/OFF • 3000/6000 V/min • Overload • min/max • ramp

**Applications :** vibrators linear • medium and large bowl feeders

**Options :** DIN35 • custom label

**Dimensions :** 115 x 140 x 60mm



### ▶ RS96

**6A**
**115V  
230V**
**0/10V  
0/20mA**
**IP 65**
**Electronic Stabilized Circuit**


**Voltage :** 115V or 230V • 50/60Hz • current max 6A RMS

**Features :** 3 ON/OFF • 3000/6000 V/min • input PLC 0/10V  
0/20mA • ramp • min/max (man-aut)

**Applications :** vibrators linear • medium and large bowl feeders

**Options :** vertical assembly DIN35 • custom label

**Dimensions :** 115 x 140 x 60mm



### ▶ CV99

**6/8A**
**115V  
230V**
**0/10V  
0/20mA**
**IP 65**
**Electronic Stabilized Circuit**

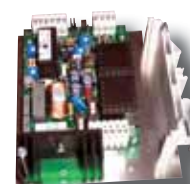

**Voltage :** 115V or 230V • 50/60Hz • current max 6/8A RMS

**Features :** 3 ON/OFF • 3000/6000 V/min • input PLC 0/10V  
0/20mA • ramp • min/max (man/aut)

**Applications :** vibrators linear • medium and large bowl feeders

**Options :** customized label • DIN35

**Dimensions :** 100 x 200 x 80mm



### ▶ RV6•RV6S

**6/8A**
**115V  
230V**
**0/10V  
0/20mA**
**IP 65**
**Electronic Stabilized Circuit**


**Voltage :** 115V or 230V or 400V • 50/60Hz • current max 6/8A RMS

**Features :** 3 ON/OFF • 3000/6000 V/min • input PLC 0/10V

**Applications :** vibrators linear • medium and large bowl feeders

**Options :** customized label • circuit PRX97 to NPN/NPN sensor

**Dimensions :** 130 x 130 x 90mm



## MDL SERIES

### ▶ MDL

**Amp.  
6/8/6**
**115V  
230V**
**Controller for Electromagnetic Vibrators**

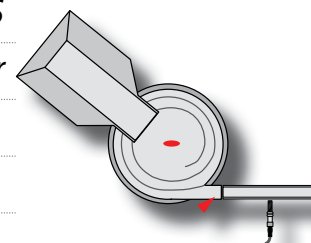

**Voltage :** 115V/230V • 50/60Hz • current max 6/8/6A RMS

**Features :** for linear, bowl feeders, hopper or elevator

**Applications :** automatic drive for electromagnetic vibrators

**Options :** NPN/PNP • circuit PRX92 or PRX99

**Dimensions :** 390x200x100 • 260x200x100 • 300x200x100



## SMART ISO SERIES

### ▶ R3FC-ISO

3/4A

115V  
230V

IP 65

Electronic Stabilized Circuit



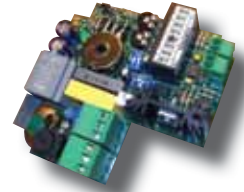
Voltage : 115V or 230V • 50/60Hz • current max 3/4A RMS

Features : 4 ON/OFF • 3000/6000 V/min • min/max • ramp

Applications : vibrators linear • medium and bowl feeders

Options : DIN35 • custom label

Dimensions : 100 x 100 x 50mm



### ▶ R3FSC-ISO

4/5A

115V  
230V

IP 65

Electronic Stabilized Circuit



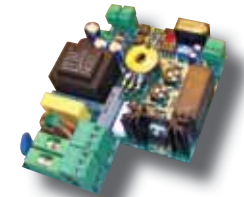
Voltage : 115V or 230V • 50/60Hz • current max 4/5A RMS

Features : 4 ON/OFF • 3000/6000 V/min • NPN/PNP ramp

Applications : vibrators linear • medium and bowl feeders

Options : IP65 • plastic box • vertical assembly DIN35

Dimensions : 100 x 140 x 60mm



### ▶ R5FC-ISO

6/8A

115V  
230V  
400V

IP 65

Electronic Stabilized Circuit



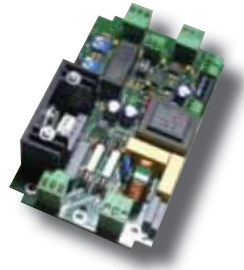
Voltage : 115V or 230V or 400V • 50/60Hz • current max 6/8A RMS

Features : 4 ON/OFF • 3000/6000 V/min  
ramp • min/max • 2 speed

Applications : vibrators linear • medium and bowl feeders

Options : custom label • DIN35 • aluminium

Dimensions : 130 x 165 x 60mm



## PRX SERIES

### ▶ PRX92

115V  
230V

NPN  
PNP

ON  
OFF

Electronic circuit for Sensor  
NPN/PNP with retard ON/OFF

### ▶ PRX13



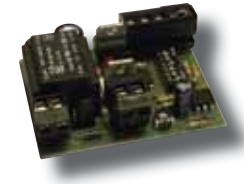
Voltage : 115V or 230V • 50/60Hz

Features : management sensor NPN/PNP • 2 delays ON/OFF

Applications : air jet • timer alarm flow

Options : delay "Full" feeding

Dimensions : coupled with R5FC • R3FC • CV6F



### ▶ PRX99

BLOW  
AIR

FLOW  
PIECES

Alarm

Electronic circuit for Sensor  
NPN/PNP with retard ON/OFF



Voltage : 115V or 230V • 50/60Hz

Features : management sensor NPN/PNP • 2 delays ON/OFF  
air jet • timer alarm flow

Applications : delay "Full" feeding

Options : coupled with R5FC • R3FC • CV6F

Dimensions : 95 x 165 x 35mm



# INDUSTRIAL SERIES

## ▶ CV6F/CV8F

6/8A

230V  
400V

0/10V  
0/20mA

Electronic Stabilized Circuit



**Voltage :** 115V or 230V or 400V • 50/60Hz • current max 6/8A RMS  
**Features :** 3 ON/OFF • 3000/6000 V/min • input PLC 0/10V  
 0/20mA • ramp • min/max (man/aut)  
**Applications :** • medium and large linear vibrators  
**Options :** IP65(NEMA 4/4X) plastic box • vertical assembly DIN35  
**Dimensions :** 165 x 130 x 70 mm • 195 x 130 x 90 mm



## ▶ CV 12/25

12/25A

230V  
400V

0/10V  
0/20mA

Electronic Stabilized Circuit



**Voltage :** 115V or 230V or 400V up to 600V 50/60Hz  
 current max 12/25 RMS - 25/33/50/100 HZ  
**Features :** see circuit CV6F/CV8F  
**Applications :** large industrial vibrators up to 25A  
**Options :** IP65 • double speed/output • 25/33 Hz  
**Dimensions :** 250 x 200 x 130 mm • 265 x 130 x 90 mm



## ▶ CV6FS/CV8FS

6/8A

230V  
400V

0/10V  
0/20mA

Electronic Stabilized Circuit with Sensor



**Voltage :** 115V or 230V or 400V 50/60Hz • current max 6/8A RMS  
**Features :** see circuit CV6F/CV8F  
**Applications :** amplitude control with sensor SIND1/SIND2  
**Options :** IP65 • metal box • vertical assembly DIN35  
**Dimensions :** 195 x 130 x 90 mm • 240 x 130 x 110 mm



## ▶ CVS 12/25

12/25A

230V  
400V

0/10V  
0/20mA

Electronic Stabilized Circuit with Sensor



**Voltage :** 115V or 230V or 400V up to 600V 50/60Hz.  
 corrente max 12/25 RMS - 25/33/50/100 HZ  
**Features :** see circuit CV6F/CV8F  
**Applications :** amplitude control with sensor SIND1/SIND2  
**Options :** IP65 • double speed/output • 25/33 Hz  
**Dimensions :** 250 x 200 x 130 mm • 265 x 130 x 90 mm



## ▶ CV(S) 40/70

40/70A

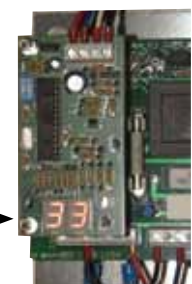
230V  
400V

0/10V  
0/20mA

Electronic Stabilized Circuit with Sensor



**Voltage :** 115V or 230V or 400V up to 600V 50/60Hz  
 current max 40/70 RMS • 25/33/50/100 HZ  
**Features :** see circuit CV6F/CV8F  
**Applications :** amplitude control with sensor SIND1/SIND2  
**Options :** IP65 • double speed/output • 25/33 Hz  
**Dimensions :** 350 x 270 x 140 mm





## DIGITAL SERIES

### ▶ FQ1N-DIG

Amp. 10/12/15	115V 230V	0/10V 0/20mA	Hz 5/140
------------------	--------------	-----------------	-------------

**Electronic Digital Circuit  
Amplitude/Frequency**



**Voltage :** 115V or 230V or 400V • 50/60Hz • current max 10/12/15A RMS

**Features :** 4 ON/OFF • 2 sensor PNP • air jet • 0/10V • alarm

**Applications :** reg.dig.Amplitude/Frequency vibrators up to 10/12/15A

**Options :** 5/200 Hz • 5/300 Hz • sensor SIND3 • custom label

**Dimensions :** 100 x 180 x 190mm



### ▶ FQ2N-DIG

5/6A	115V 230V	0/10V 0/20mA	Hz 5/140
------	--------------	-----------------	-------------

**Electronic Digital Circuit  
Amplitude/Frequency**



**Voltage :** 115V or 230V • 50/60Hz • current max 5/6A RMS

**Features :** 4 ON/OFF • 2 sensor PNP • blow air • 0/10V

**Applications :** reg.dig.Amplitude/Frequency vibrators up to 5/6A

**Options :** 5/200 Hz • 5/300 Hz • sensor SIND3 • custom label

**Dimensions :** 100 x 210 x 70mm



### ▶ RF4 PWM

4/5A	115V 230V	0/10V 0/20mA	Hz 30/130
------	--------------	-----------------	--------------

**Electronic Digital Circuit  
Amplitude/Frequency**



**Voltage :** 115V or 230V • 50/60Hz • current max 4/5A RMS

**Features :** 4 ON/OFF • 2 sensor PNP • air jet • 0/10V

**Applications :** reg.dig.Amplitude/Frequency vibrators up to 4/5A

**Options :** Custom label • display • DIN35

**Dimensions :** 130 x 130 x 90 mm



### ▶ FQ1 PWM

6A	115V 230V	0/10V 0/20mA	Hz 30/180
----	--------------	-----------------	--------------

**Electronic Digital Circuit  
Amplitude/Frequency**



**Voltage :** 115V or 230V • 50/60Hz • current max 6A RMS

**Features :** 4 ON/OFF • 2 sensor PNP • blow air • 0/10V

**Applications :** reg.dig.Amplitude/Frequency vibrators up to 6A

**Options :** Custom label • display • DIN35

**Dimensions :** 195 x 130 x 90 mm



### ▶ FQ1 LCD

10/12A 15A	115V 230V	0/10V 0/20mA	Hz 5/200
---------------	--------------	-----------------	-------------

**Electronic Digital Circuit  
Amplitude/Frequency**



**Voltage :** 115V or 230V • 50/60Hz • current max 10/12/15A RMS

**Features :** Amplitude/Frequency control 5-200Hz

**Applications :** reg.dig.Amplitude/Frequency vibrators up to 15A

**Options :** amplitude sensor SIND3

**Dimensions :** 200 x 240 x 120 mm



## MCP SERIES

### ▶ MCP01

Amp.  
8/10

115V  
230V

Functional Group for Electromagnetic Vibrators



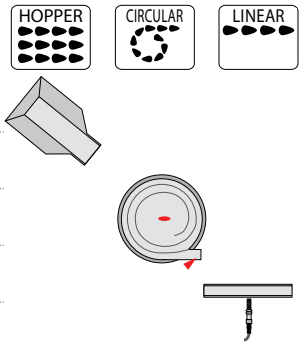
**Voltage :** 115/230V • 50/60Hz • current max 8/10A RMS

**Features :** vibrator supplies linear, bowl feeders, or hopper

**Applications :** digital settings with 2 sensor PNP • timer • air jet • alarm

**Options :** label and software customization • 12 Amp

**Dimensions :** 100x180x190



### ▶ MCP02

Amp.  
8/10

115V  
230V

Functional Group for Electromagnetic Vibrators



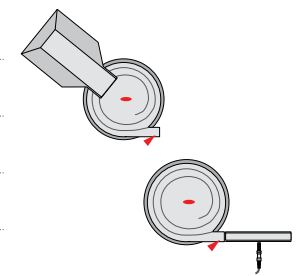
**Voltage :** 115 or 230V 50/60Hz • current max 8/10A RMS

**Features :** supply linear/bowl feeders • bowl feeders/hopper

**Applications :** digital system to drive two vibrators

**Options :** label and software customization • 12 Amp

**Dimensions :** 100x180x190



### ▶ MCP12

Amp.  
5/10/5

115V  
230V

Functional Group for Electromagnetic Vibrators



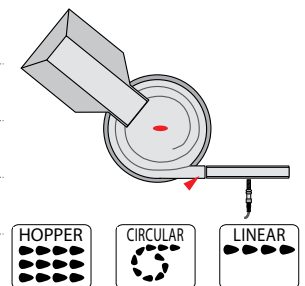
**Voltage :** 115 or 230V 50/60Hz • current max 5/10/5A RMS

**Features :** vibrator supplies linear/ bowl feeders/hopper

**Applications :** digital system to drive two vibrators

**Options :** label and software customization • 12 Amp

**Dimensions :** 130x180x190



## MTR SERIES

### ▶ MTR01

NPN  
PNP

230V  
400V

IP65

Electronic Controller for Electromagnetic Vibrators



**Voltage :** 3x230V • 3x400V • 50/60Hz

**Features :** drive elevator/ conveyor • sensor NPN/PNP

**Applications :** 3 Phase Motor-Driven Feeder with NPN/PNP sensor On/Off delay and Alarm delay

**Options :** customized labels • assembly Din35

**Dimensions :** 195 x 130 x 90mm • 100 x 180 x 190mm



### ▶ MTR01DIG

PNP

230V  
400V

IP55

Electronic Controller for Electromagnetic Vibrators



**Voltage :** 3x230V • 3x400V • 50/60Hz

**Features :** drive elevator/ conveyor • PNP hopper sensor

**Applications :** 3 Phase Motor-Driven Feeder with NPN/PNP sensor On/Off delay and Alarm delay

**Options :** customized labels • assembly Din35 • inverter

**Dimensions :** 100 x 180 x 190mm • 195 x 130 x 90mm





# INSTRUMENTS

## ▶ ALIM01

230V  
400V

SIND1

SIND2

## AMP-VIB

Amp  
3/5/6/8/10

230V  
400V

IP 55



**Voltage :** 230V/400V • 50/60Hz

**Features ALIM01 :** amplitude monitoring electromagnetic and mechanical vibrators

**Features AMP-VIB :** max current tester

**Applications :** control min/max vibration amplitude  
max current measure (AMP-VIB)

**Options :** IP65 (NEMA 4/4X) • amplitude meter (ALIM01)

**Dimensions :** 140 x 165 x 65mm • 165 x 130 x 70mm



## General Electrical Characteristics

<b>Reg Min Man/ Aut.</b>	80V +/- 30% (230V)	<b>Storage Temperature:</b>	-15 °C / + 80 °C
<b>Reg Max Man/Aut.:</b>	200V • 30% (230V)	<b>Temperature Operating :</b>	-5 °C / + 45 °C
<b>Time on/off/Allarm:</b>	0/15 sec	<b>Range of Relative Humidity:</b>	80% up to 31°C
<b>Ramp Time :</b>	0,2/2sec	<b>Installation Class:</b>	II
<b>Degree of Pollution:</b>	2	<b>Altitude:</b>	Up to 2000 meters
<b>Assemblage Position:</b>	Horizontal or Vertical	<b>European Norms:</b>	EMC CE
<b>Degree of Protection:</b>	IP65 in box (IP20 only circuit)	<b>Guarantee :</b>	1 year (from date on circuit)



Inox

### ANALOGICAL SERIES



Sensor SIND1



Sensor SIND2

### DIGITAL SERIES



Sensor SIND3

## QUALITY SYSTEM

