PROCESO Relé

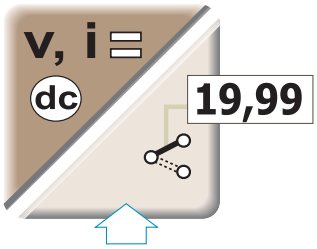
PROCESS RELAY (v, i)

1 alarm

0-4/20mA (Active/Passive)

0/10V

Remberg®



24VDC ISOLATED

ALARM SETPOINT

DIGITAL NUMERICAL DIRECT PRESELECTION

Ex. 18,39mA

FRONT ACCESS

PROTECTED BY HINGED LID

LED SIGNALLING ALERT AND POWER SUPPLY

2 TYPES OF INPUT V,I FRONT SELECTION

V 0/10V

I 0-4/20mA

ISOLATED POWER

DC 24VDC (20..30VDC)

TOTAL ISOLATION

LOW HIGH HYSTERESIS SELECTION

RELAY ACTION

ISOLATED OUTPUT AND ALARM

SWITCHING CONTACT

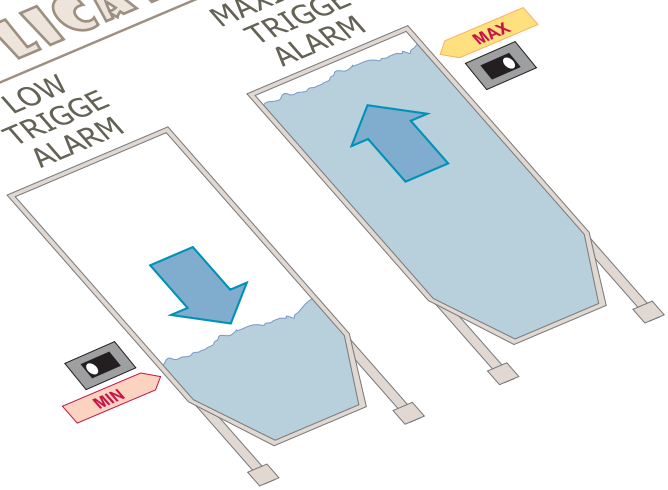
LOW HIGH INPUT FILTER

FOR FLUCTUATING SIGNALS

APLICATIONS

LOW TRIGGE ALARM

MAXIMUM TRIGGE ALARM



TECHNICAL CHARACTERISTICS

INPUT AISLADA

Voltage **0/10V**

Input impedance **200K**

Intensity **0-4/20mA**

Passive/active terminal selection

Power supply for passive loops **15V/30mA**

Input impedance **120Ω**

Selectable **low/high** digital filter

PRECISSION

Resolution	**10bits**
Maximum global error	**0,1%**
Thermal drift	**0,5µA/ºC** **0,2mV/ºC**

ENVIRONMENTAL

Working temperature	**- 10/+60ºC**
Storage temperature	**- 40/+80ºC**
Warm-up time	**5 minutes**
Temperature coefficient	**50 ppm/ºC**

SETPOINT PRESELECTION

Digital numerical setpoint **2 decimal** places

Maximum setpoint 0/10V	**9.99V**
Maximum setpoint 0-4/20mA	**19.99mA**

OUTPUT ISOLATED

SPST-NO switch contact

Maximum current	**6A**
Maximum voltage	**250VAC**
Relay electrical life	**100,000 operations**

Front **LED** alarm signaling (blinking)

Selectable **small/large** hysteresis

Small hysteresis value	**0.5% F.e.**
Large hysteresis value	**2% F.e.**

DESCRIPTION

1-alarm process relay for voltage signals 0/10V or current 0-4/20mA, with galvanic isolation.

It allows numerical preselection on the front of an alarm with a relay switched contact output, protected by a hinged cover.

It has a digital filter to stabilise fluctuating signals, as well as selection for maximum triggering (for example filling tanks) or minimum triggering (emptying tanks).

The hysteresis is selectable between 2 levels (large/small) to prevent the relay from rattling at values close to the set point.

It is protected in compliance with EMC standards for industrial applications.

It has an isolated DC power supply (20.. 30VDC) with wide margins.

The connection is made through coded plug-in terminals, which facilitate the rapid exchange of modules without the need to rewire, and protect against errors.

POWER SUPPLY ISOLATED MARGIN

CONTINUOUS 24VDC (wide range) **20.. 30VDC**

Maximum consumption **1W**

Front LED POWER ON signaling (fixed)

EMC 2014/30/EU (electromagnetic compatibility)

DBT 2014/35/EU (low voltage directive) for industrial environments.

CE Interference immunity according to EN 61000-6-2.

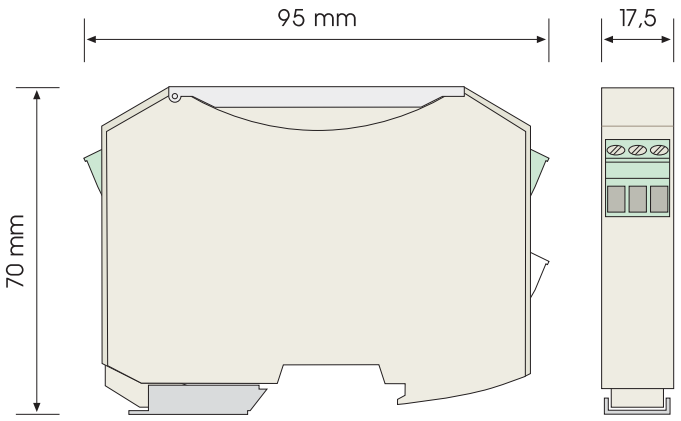
Emission of interference according to EN 61000-6-3.

Installation category II. Pollution degree 2 EN 61010-1.

ISOLATION

INPUT / OUTPUT / POWER **1500V**

FORMAT



IP20 protection

Ergonomic housing. Quick mounting on EN50022 rail.

Flammability class Vo according to **UL94**

Material: Polyamide **PA6.6**

Connection: screw-type plug-in terminals.

Screw tightening torque (M3) **0.5 Nm**

Connection cable: **≤ 2.5mm² 12AWG 250V/12A**

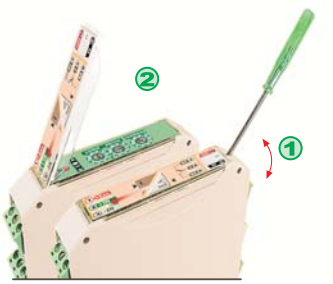
Protection against mistakes, by means of coded terminals and special coloured power supply.

Configurations and recalibrations without disconnecting and without removing the rail by means of front access with a hinged cover with protection.

Weight **100gr.**

CONFIGURATIONS

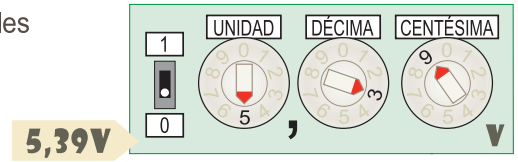
ALARM



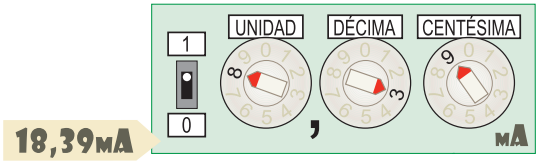
access to SETTINGS

TRIGGER LEVEL

examples



* The maximum allowable voltage value is 10.00 V



* The maximum admissible value in intensity is 19.99 mA

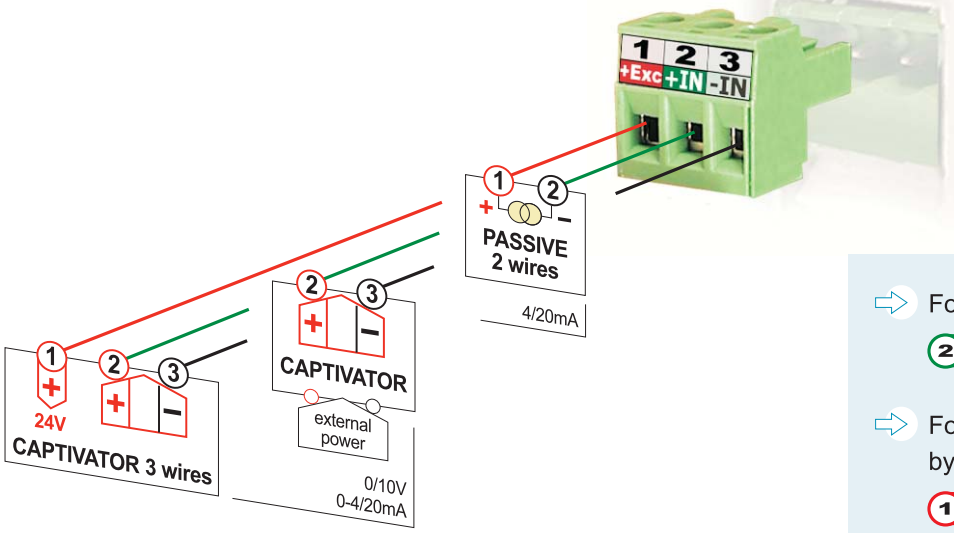
INPUT	Input type	APPLICATIONS
0-4/20mA	0/20mA or 4/20mA current signals. Passive / Active Sensors	2-wire pressure sensors. Thermostats, etc.
0/10V	0/10V (DC) voltage signals	Voltage thresholds. Preset alarms

FILTRO	Input signal stabilization filter	APPLICATIONS
HIGH	Before evaluating the alarm, several averages are performed to filter out fluctuating signals.	Reservoir level affected by wind. Stabilization of level undulation.
LOW	For applications where rapid alarm action is required.	Overcurrent alarms for motor protection.

HYSTERESIS	Difference between activation and deactivation point.	APPLICATIONS
HIGH	When the alarm is activated when the temperature rises to a maximum, it will not be deactivated until it falls below a high (3%) or low (0.5%) value.	Avoid relay chatter.
LOW	When the alarm is activated when the temperature falls to a minimum, it will not be deactivated until it exceeds a high/low value.	Temperature regulation.

MODE	Mode of action.	APPLICATIONS
BY MAXIMUM	The alarm remains deactivated until the process exceeds the setpoint value.	Filling the tank.
BY MINIMUM	The alarm remains deactivated as long as the process is above the setpoint value. When it falls below the setpoint, it will activate.	Emptying the tank.

CONNECTION



0/10V 0-4/20mA

INPUT

For ACTIVE collectors

(2) +IN (3) -IN

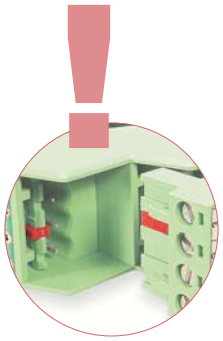
For 3-wire ACTIVE sensors, powered by terminals

(1) +Exc (2) +IN (3) -IN

For 2-wire PASSIVE sensors, (4/20mA)

CAPTADOR

(1) +Exc +I -I (2) +IN



Safety in connections.
Coded plug-in terminals.

Using encoders on the terminals, the multiplexer is protected against any error when plugging in by inverting the inputs and outputs.

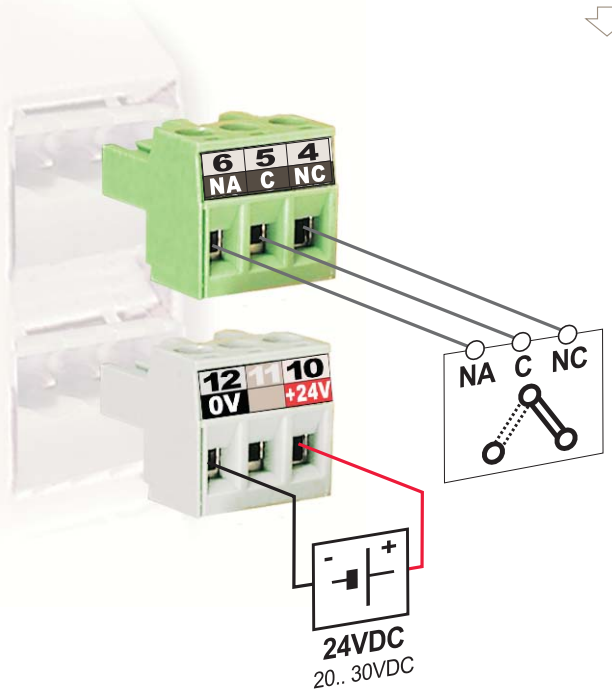
They facilitate wiring and rapid exchange of modules.

White power terminal for easy identification.

ISOLATED POWER

DC power supply.
With wide automatic input range in continuous 24VDC (20.. 30VDC).

DC CONTINUOUS POWER SUPPLY 24VDC



Switched relay output.
Adjustable alarm level.

Direct display on the front.

OUTPUT