

FLAME PRESENCE SIGNAL CONVEYER

PRODUCT: ACS-TX-□-K5

TECHNICAL SHEET 1/8

☎ Customer Service: 55 11 3019-1616

For further details, see technical bulletin

• APPLICATION

Allows distance transmission of flame presence signal, sent by sensors of the SEL-SV and SEL-HT lines.

The installation distance between the flame presence sensor and the detector programmer or relay should be as short as possible. However, depending on installation characteristics, it may be necessary to install the flame sensor away from the flame detection relay or programmer (distances greater than those specified on the products' technical bulletins). In this case, we recommend the use of flame signal conveyer ACS-TX.

The ACS-TX conveyer is equipped with a circuit which allows the adjustment of sensor sensitivity, which make is also appropriate to be used with equipment with multiburners, where it is necessary to discriminate undesired flames or modified radiation. Its use is recommended when the distance between the sensor and the programmer is greater than 8 meters. By using the conveyer, it is possible to install the sensor up to 500 meters away from the controller (CHM relay or PRG programmer).

• TECHNICAL DATA

- ⇒ Feeding 115 or 220Vac; +10/-15%; 50/60 Hz
- ⇒ Power consumption: 3VA
- ⇒ Internal fuse: 100 mA delayed.
- ⇒ External fuse: Plan fuse to protect outlet circuits according to the load estimated in the project, respecting the limits of such specification.
- ⇒ Protection against tension outbreaks
- ⇒ Protection against failure due to shortcut in the mass ionization sensor
- ⇒ Electric connections: with lug terminals located on the circuit board, inside the box
- ⇒ Sensitivity adjustment: Internal in the circuit board, with trimpot
- ⇒ Internal signalization – equipment in operation (Vm) – flame on (Vd)
- ⇒ Outlet current: 0 to 9 mA.-dc
- ⇒ Working temperature: 0 to 60°C
- ⇒ Storage ambient temperature: -5° to 65°C
- ⇒ Maximum ambient air moisture for operation: 90% (40 ± 2°C) – NBR 5291
- ⇒ Ambient protection degree: IP 65
- ⇒ Outer covering: gray fused aluminum box
- ⇒ Assembly: In flat sheltered surface
- ⇒ Fixation: with two lugs on the sides at the basis of the outer covering
- ⇒ Electric connection: 2 holes with internal thread 2of ½" x 14 NPT (NBR 12912), for connection of flexible electrode
- ⇒ Weight: 800 grams
- ⇒ Warranty: 12 months (**see terms of warranty**)



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• Dimensional Draft (mm)

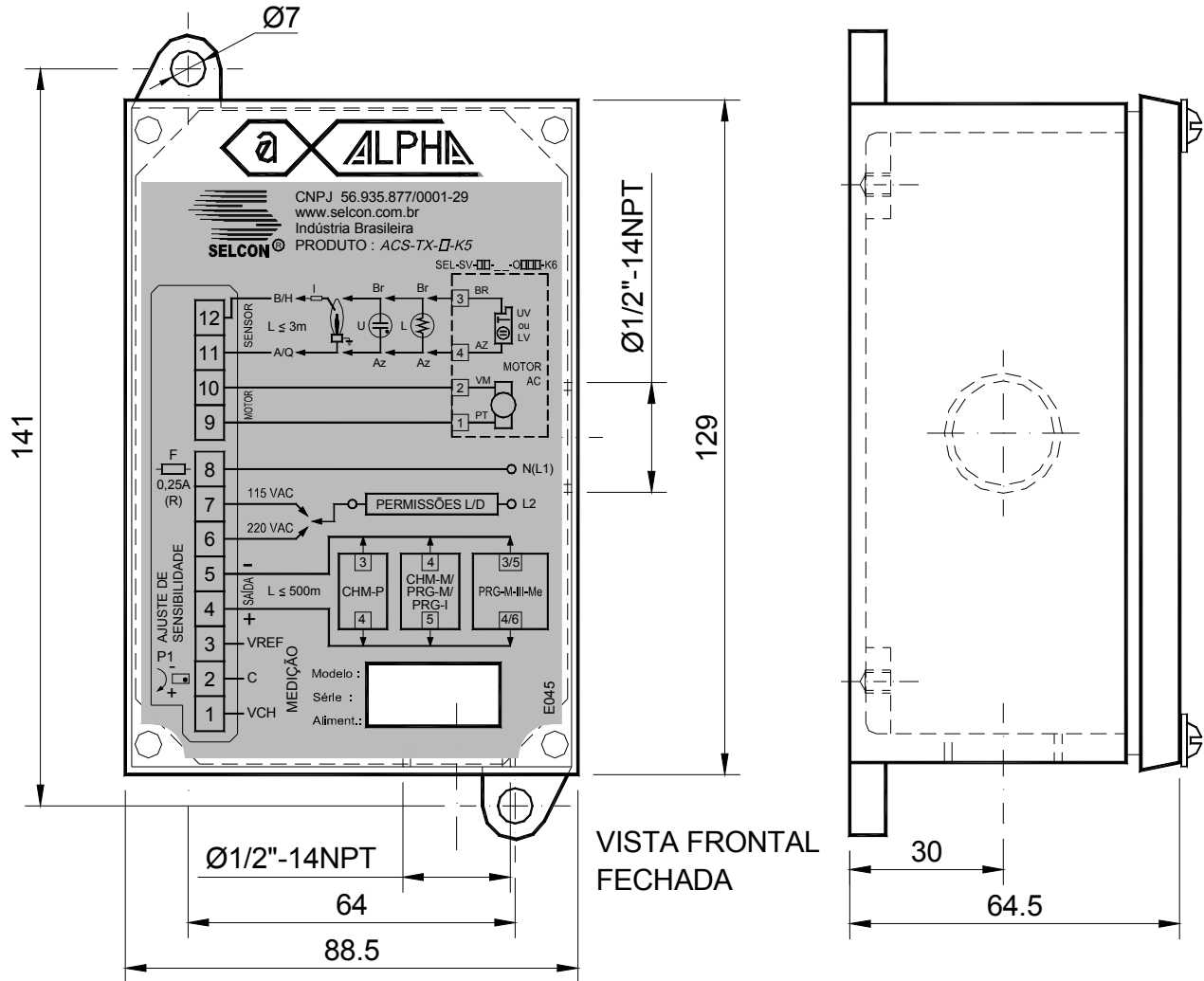


FIGURE 1



SELCON SISTEMAS ELETRÔNICOS DE CONTROLE LTDA.
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• ELECTRIC INTERCONNECTIONS GENERAL DIAGRAM

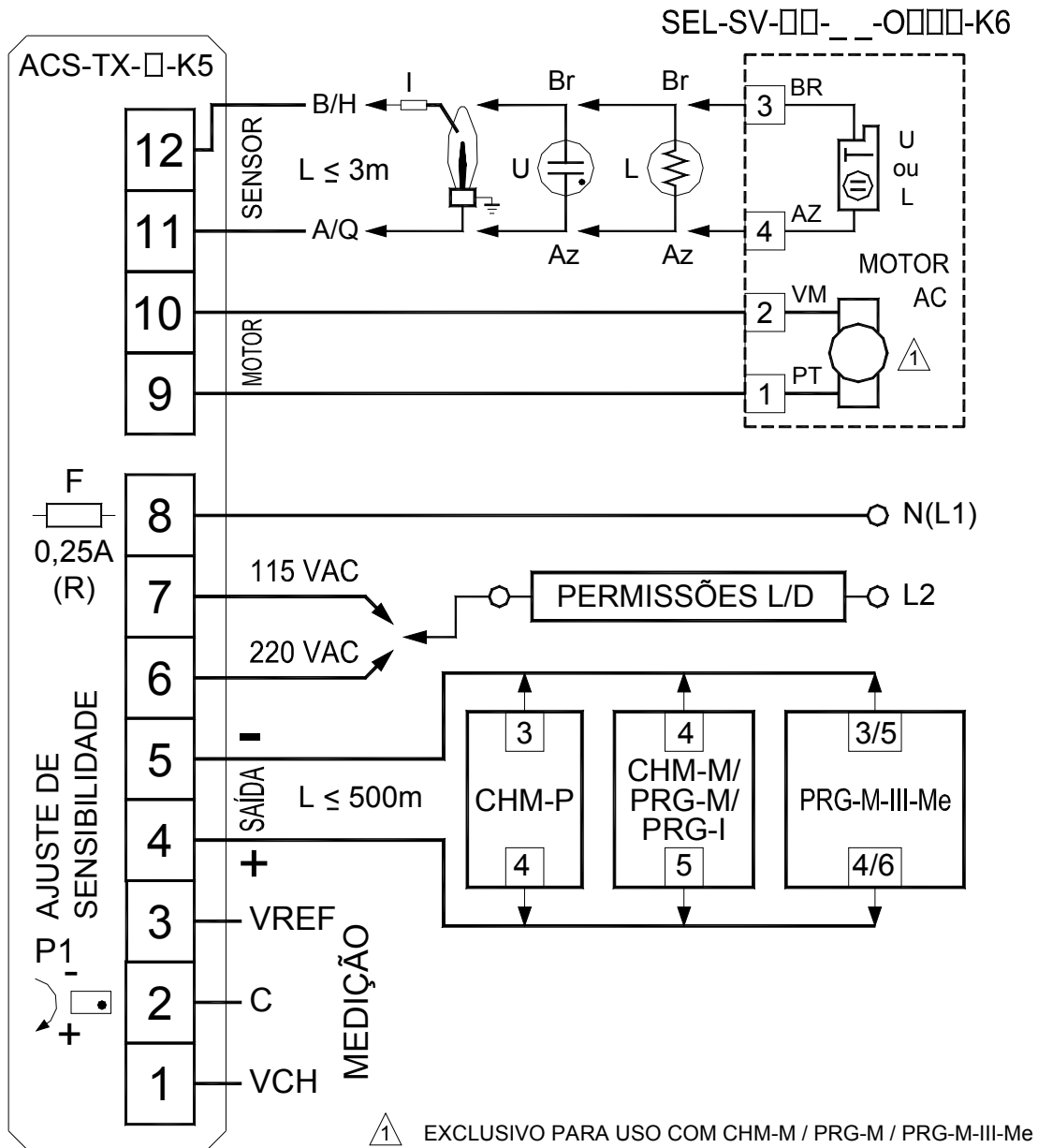


FIGURE 2



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• OTHER ELECTRIC INTERCONNECTIONS DIAGRAMS INCLUDING SIGNAL CONVERTER 4-20 MA

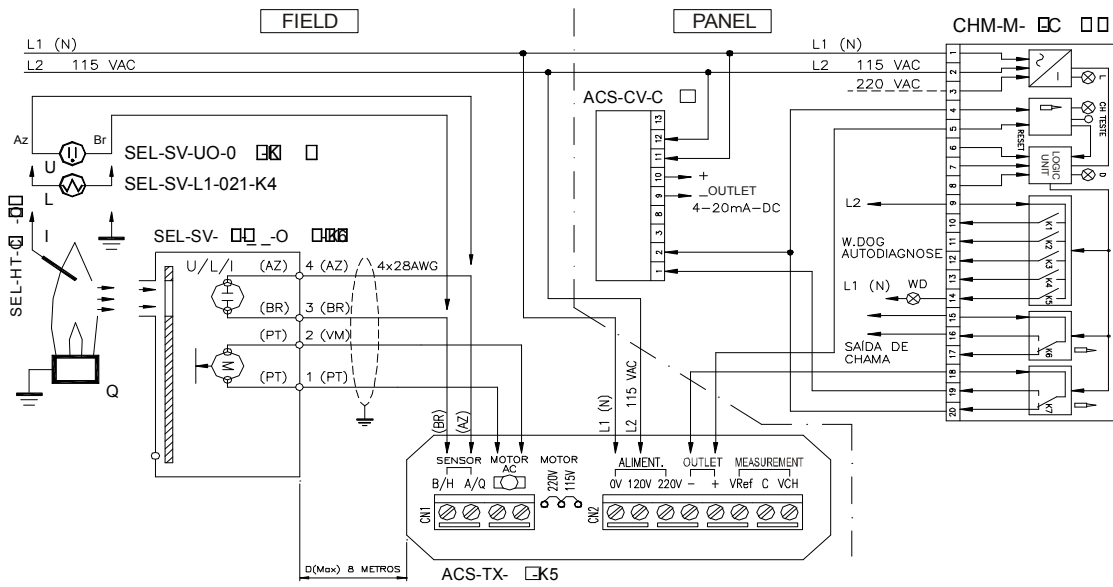


FIGURE 3

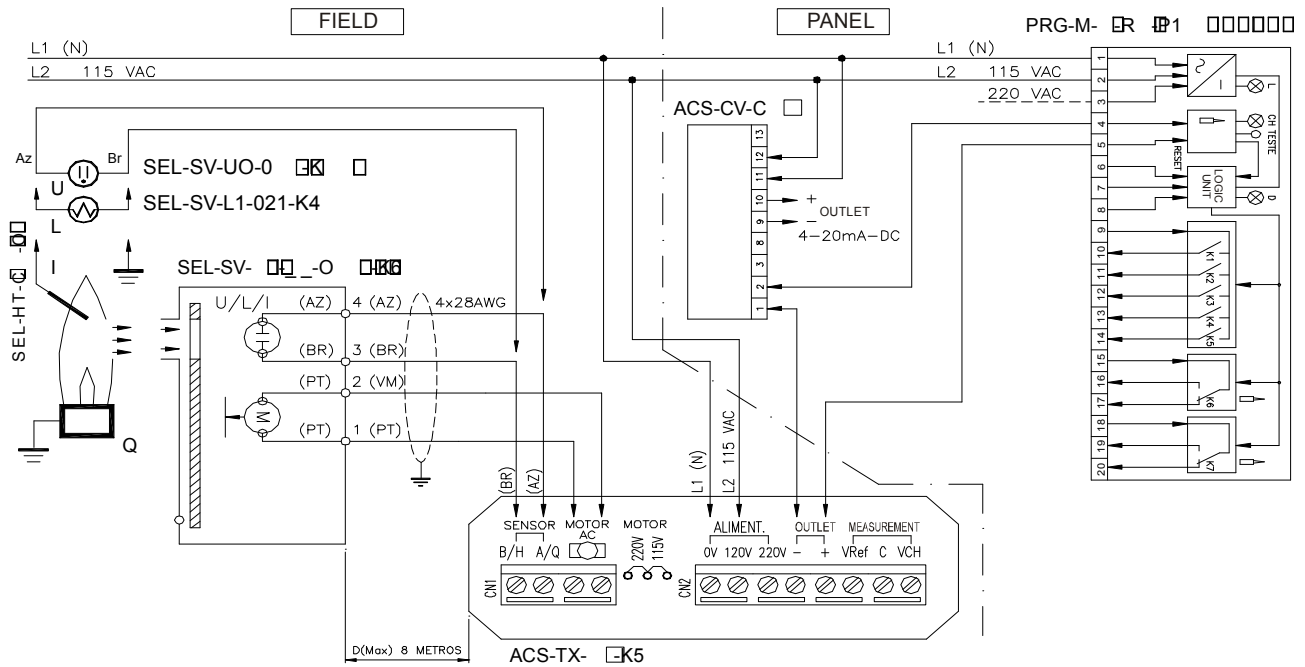


FIGURE 4



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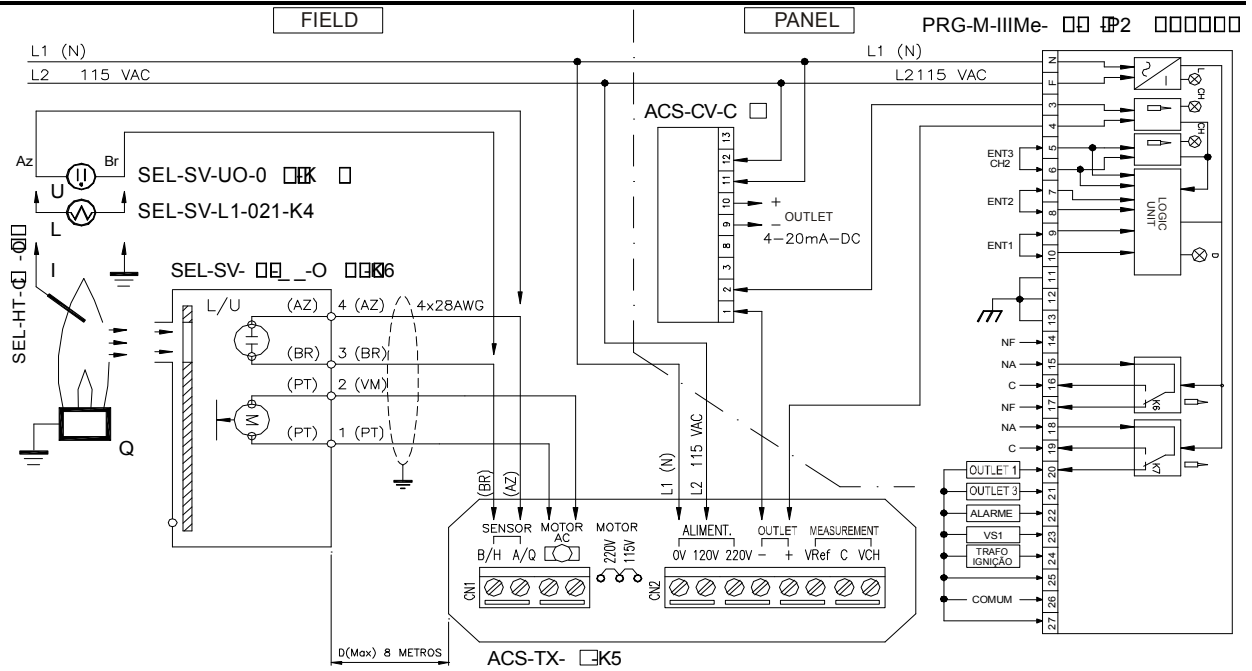


FIGURE 5

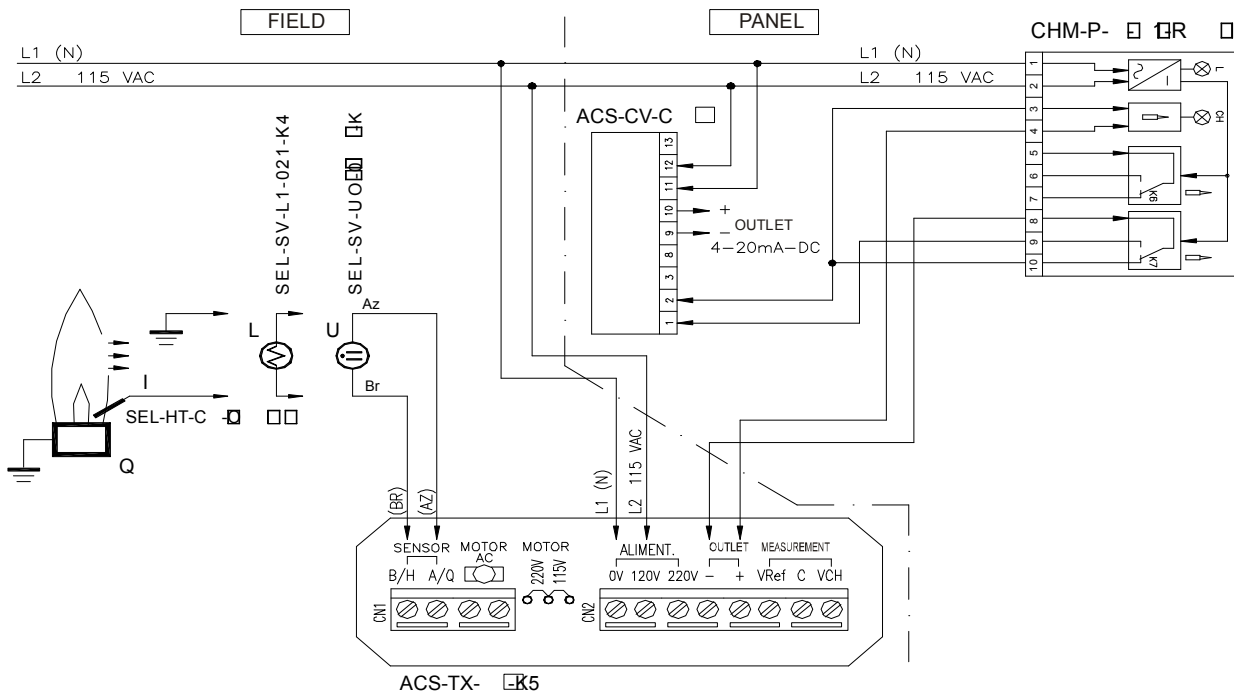


FIGURE 6



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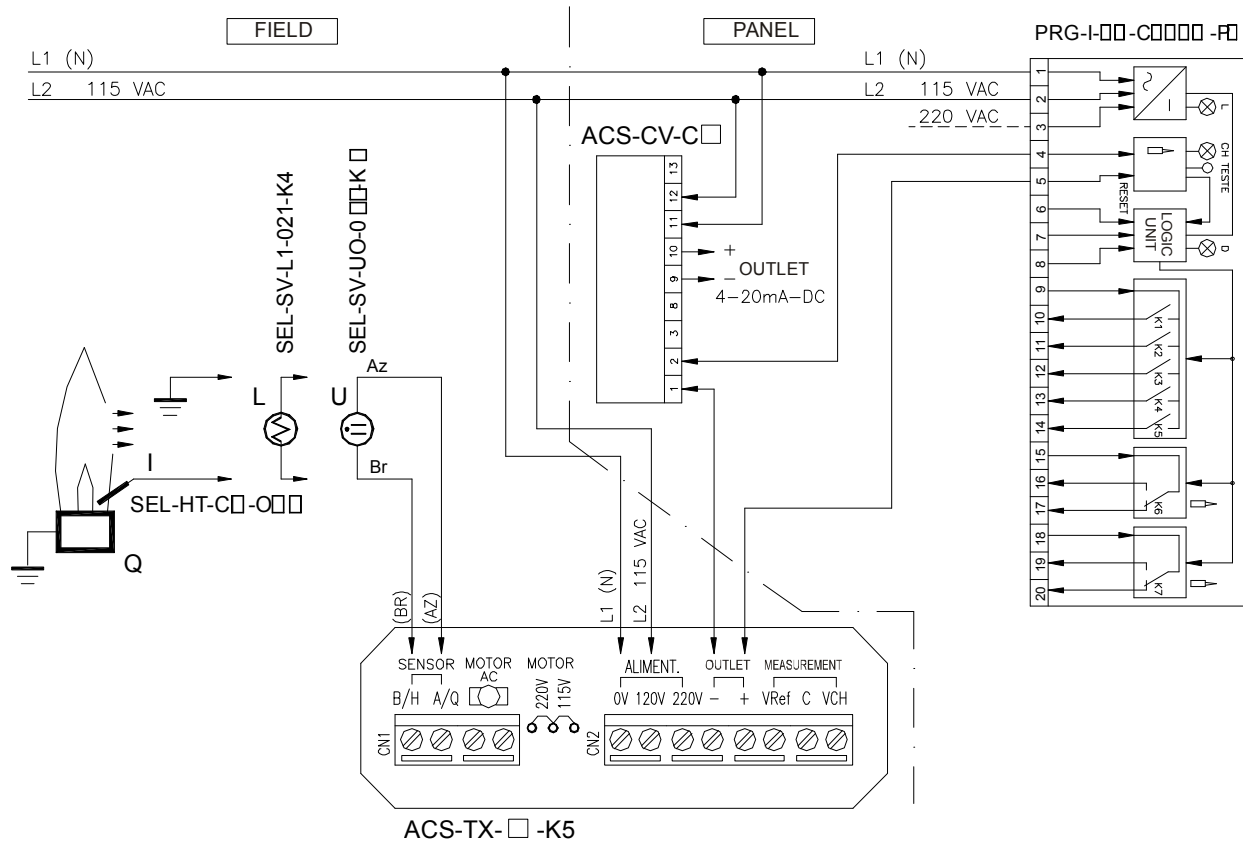


FIGURE 7

• CODE FOR ORDERS - ACS-TX-□-K5

ACS-TX	SENSOR	PROTECTION DEGREE
	I IONIZATION	K5 IP 65 (NBR 6146)
	U ULTRAVIOLET	
	L VISIBLE LIGHT	

Note: The sensor and other accessories should be specified separately, according to the respective table of codes.



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• **BE AWARE:**

- ⇒ Use the programmers and/or detector relays exclusively with flame sensors of Selcon manufacturing.

• **OTHER PRODUCTS AND ACCESSORIES:**

- ⇒ Flame Relays – CHM-E, CHM-P, CHM-M e CHM-F
- ⇒ Tightness Test Relay of blocking valves – CHM -T
- ⇒ Ignition Programmers and flame monitoring – PRG-E, PRG-Ie, PRG-Ie -IIIMe (with base), PRG-I, PRG-M e PRG-M-IIIMe (with base)
- ⇒ Optical Flame Sensors– SEL- SV
- ⇒ Flame sensors by ionization and ignitor electrodes – SEL-HT e SEL-HT-E (sensors and electrodes assembled under draft or sample from the special-client).
- ⇒ Flame signal transmitter– ACS -TX (until 500 meters between the sensor and relay or programmer)
- ⇒ Flame Signal Converter for 4 -20 mA – ACS - CV
- ⇒ Ignition transformers – ACS -TE (for feeding in VAC or VCC)
- ⇒ Portable ignitor – ACS-IP (works with common alkaline battery AA type)
- ⇒ Several Cables– ACS - CB (ignition / sensing / communication / control)
- ⇒ Connector and protector to touch for ignition cable – ACS - CP
- ⇒ Temporized ignition panel ACS – IT
- ⇒ Ignition and flame panel – ACS - PI
- ⇒ Articulated socket joint – ACS - CN
- ⇒ Ignition and monitoring panel – ACS-PN (under consultation)
- ⇒ Reform services of pilot burners (under consultation)
- ⇒ **PRODUCTION DATA SUPERVISION LINE**



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