

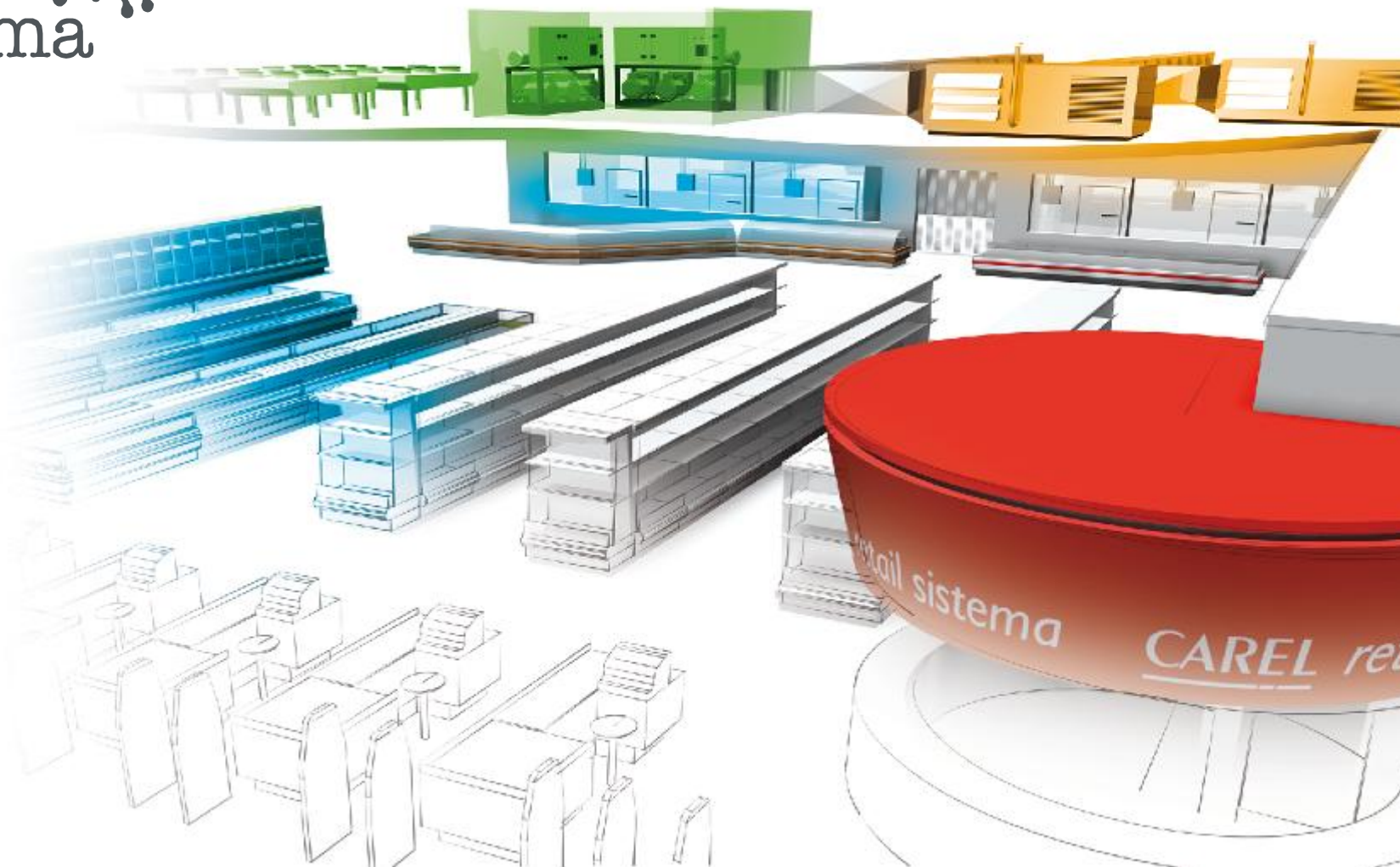
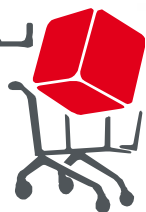
MPXPRO



Integrated Control Solutions & Energy Savings

CAREL retail sistema

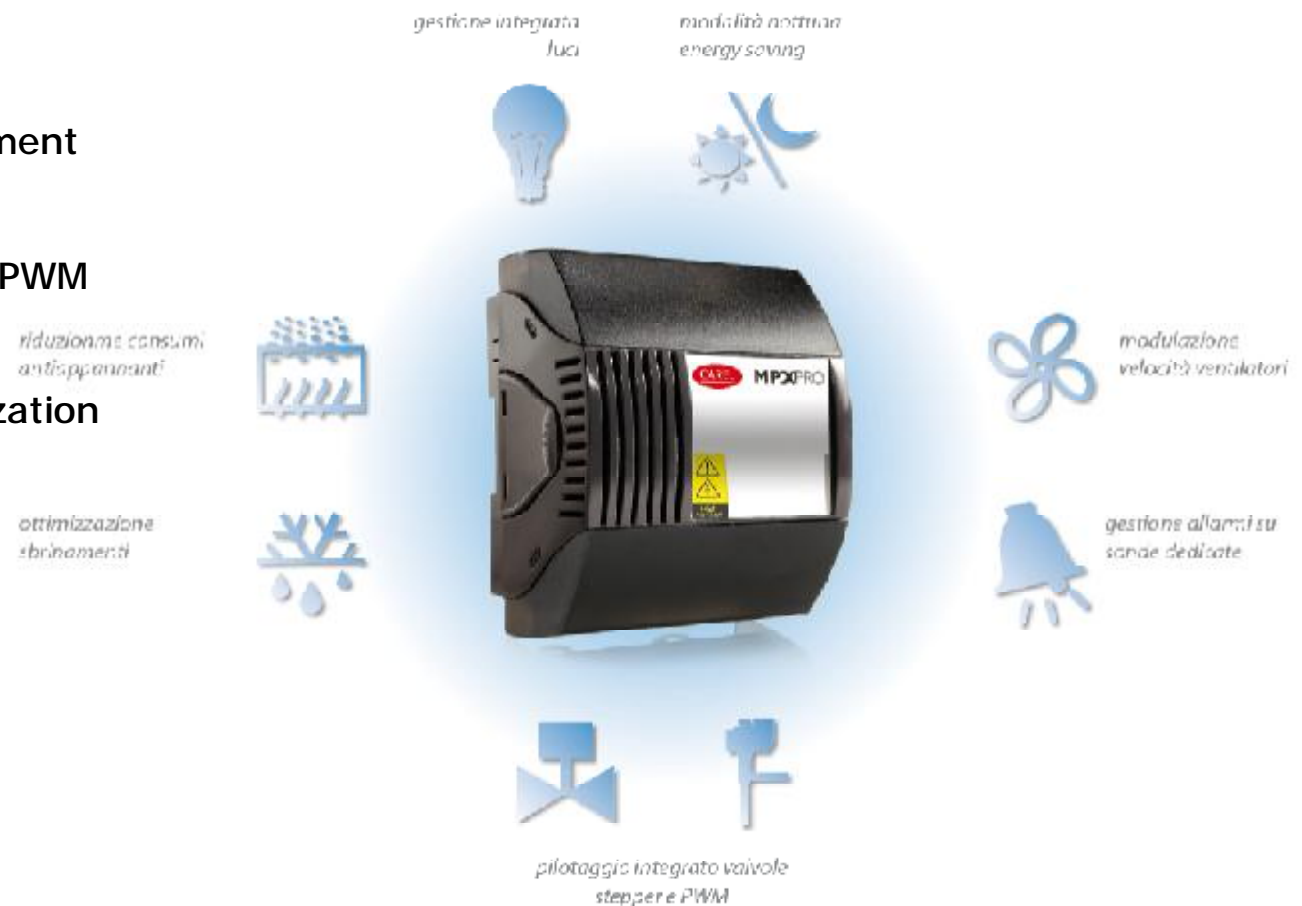
CAREL
retail
sistema



Value proposition

The complete solution for the management of centralized refrigeration unit

- internal temperatures
- defrost management
- lights/day-night management
- evaporation fans
- built in EEV: Carel E2V – PWM
- alarms
- groups/islands synchronization



Distinguish features

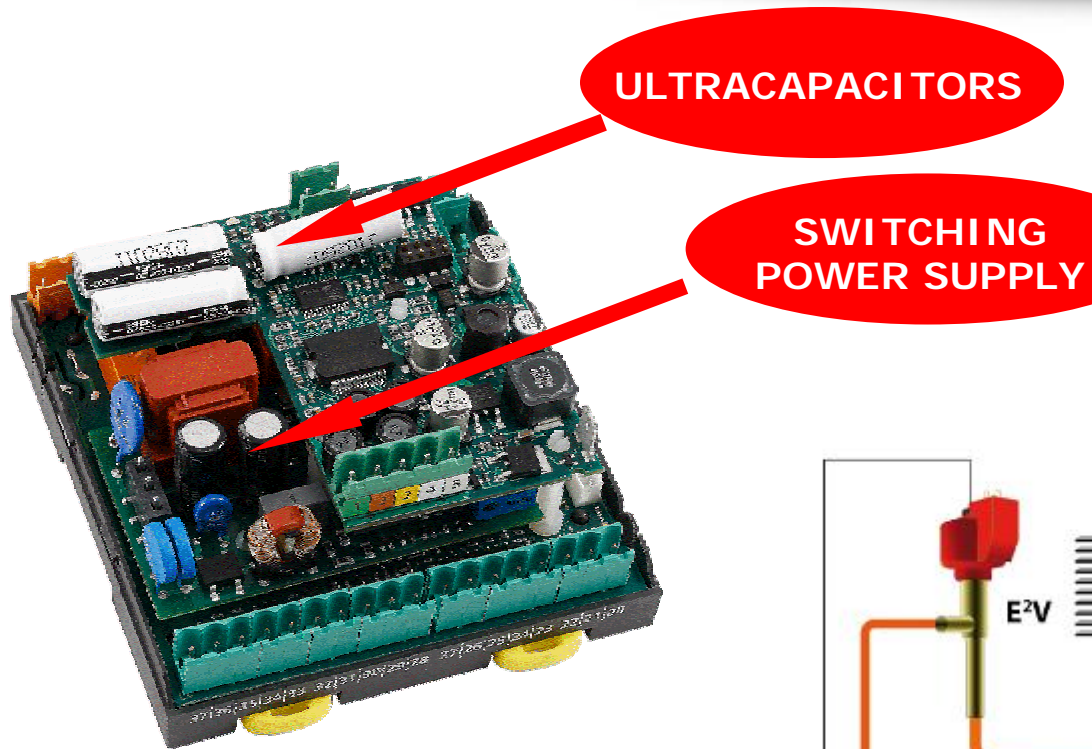
E2V driver



PWM driver

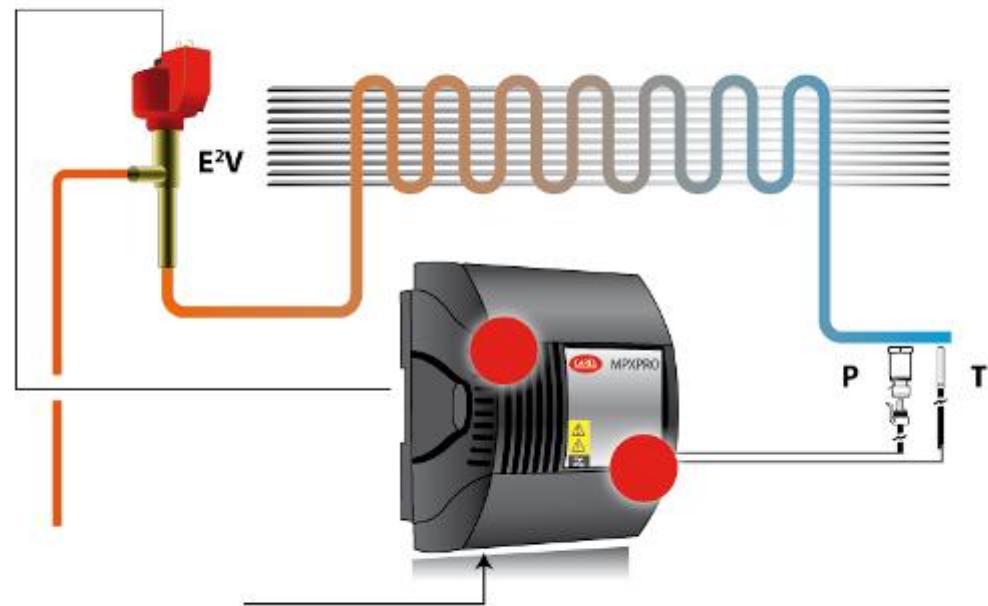


Distinguish features



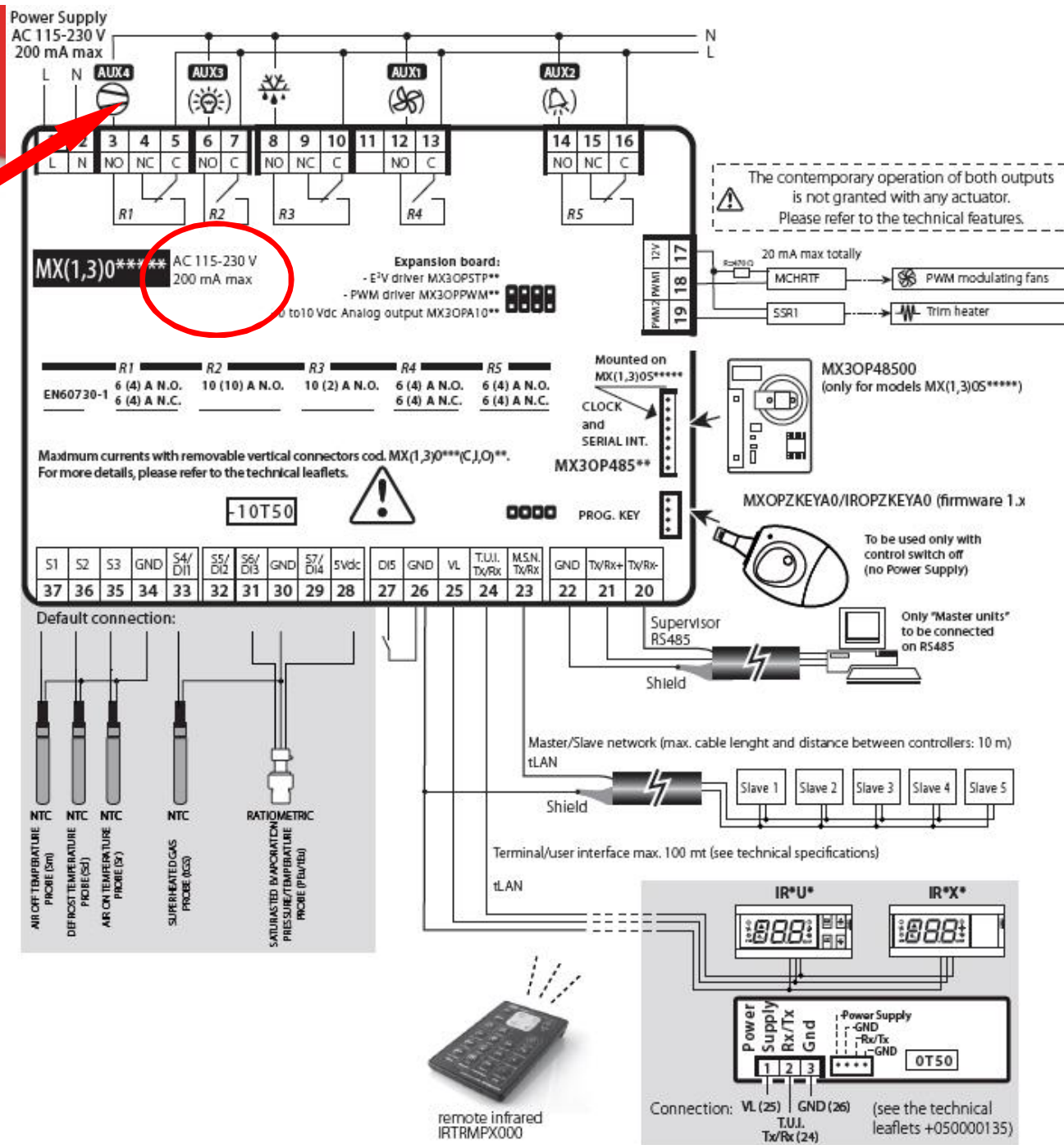
Make the continuous modulation the best for refrigeration units

Now



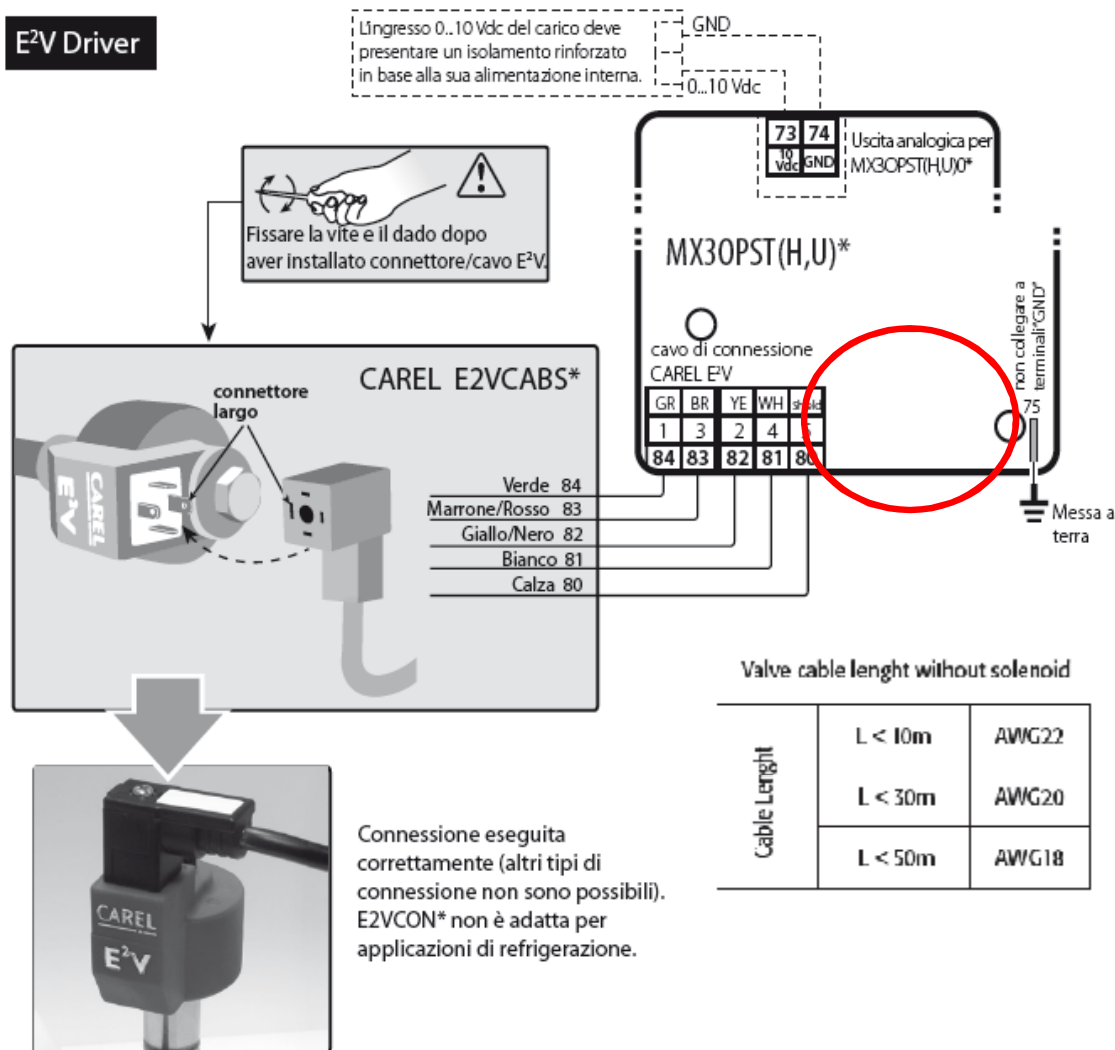
AUX4

New configurable
outputs.
Parameter H13

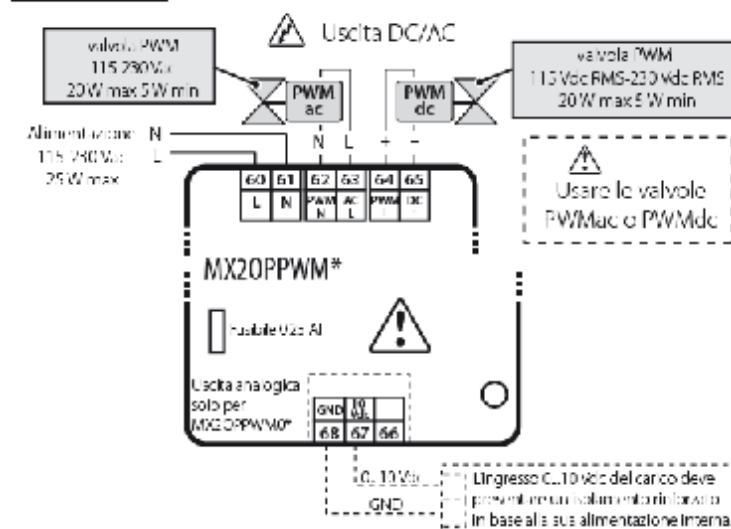


Wirings

E²V Driver



PWM Driver



Platform

New platform



MPXPRO light

- master-slave network
- shared UI
- only 20pcs package

PWM driver

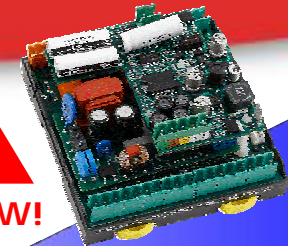


E²V driver



MPXPRO full

- installable EEV driver
- rail heaters modulation
- evap. fan modulation
- AI pT1000, 4-20mA/0-10Vdc
 - plastic cover
 - single package
 - upgradable FW



MPXPRO EEV built in

- built-in E²V driver with ultracap or PWM
- preconfiguration of main EEV regulation parameters
- evap. fan modulation on 0-10V output

MPXPRO light

MPXPRO light

All the MPXPRO innovative features limited to the management of

- Thermostat
- Master-slave network
- Defrost management
- Light, fan, auxiliary probes, anti sweat heater (duty cycle)
- User terminal and remote control
- VPM

Not available features:

- EEV management, upgrade not possible
- Dynamic modulation of anti sweat heater, only by fixed duty cycle
- Fan speed modulation
- pt1000, 4-20mA, 0-10Vdc probes

Highlights on main features

Summary of new features

- No solenoid valve for E²V
- No external transformer for E²V
- E²V cable length up to 50m
- user interface and master-slave cable length up to 100m
- improvement on defrost command via supervisor system
- solenoid relay configurable (H13)
- suction valve management during regulation (rSu)
- RS485 serial communication improvement
- pressure probe range up to 160barg
- minor bug fixing (visualization after defrost, dl, etc.)



Highlights on main features

ExV cable length

	Ultracap	Solenoid valve	High current & solenoid valve (*)
Up to 10 mt	AWG22	AWG22	AWG22
Up to 30 mt	AWG20	AWG22	AWG22
Up to 50 mt	AWG18	AWG22	AWG20

(*) needed only for >E3V45, new parameter Phc

Highlights on main features

Double alarm probe

It's possible to use two alarm probes

- monitor working temperature (air off, air on,...)
- monitor product temperature (product probe)

Independent threshold and visualization

Auxiliary probes...



**thank you for your attention,
any questions?**





*“we recognise environmental issues
as a corporate priority”*

Francesco Nalini
CAREL Managing Director

Integrated Control Solutions & Energy Savings