



# ZYGGOT ONLINE THERMOGRAPHY

ONLINE THERMOGRAPHY - CONTINUOUS TEMPERATURE MONITORING

ETHERNET

## ZYGGOT V5F/V5L ONLINE THERMOGRAPHY SYSTEM

CONTINUOUS TEMPERATURE MONITORING PROTECTION SYSTEM



CONTACTLESS ONLINE THERMOGRAPHY SYSTEM  
FOR LOW AND MEDIUM VOLTAGE APPLICATIONS

CATALOG

World's First Online Thermography System (2004).  
World Leader in Continuous Temperature Monitoring.  
World's First UV Arc Protection System\*.  
Over 1 Million Sensors Installed Worldwide.  
\* Patent Letter No. PI 0903809-4

CATALOG ZYGGOT V5F/V5L V2.2 BUILD 157 ENGLISH December 2025

# varixx

# ZYGGOT THERMOGRAPHY TEMPERATURE MONITORING SYSTEM



VZX V5F Relay

Tubular Sensor



BT Sensor

## DESCRIPTION

The low-cost ZYGGOT system was designed to allow “online” monitoring of temperatures of low and medium voltage components and internal connections, transformers, motors, etc. The ZYGGOT system introduces an important innovation in the market as the current new safety regulations prohibit the opening of energized electrical panels for any type of measurement, including temperature measurements with manual point measurement guns or thermography cameras.

The ZYGGOT system allows to monitor temperatures “On Line”, both selected targets and of the air surrounding the sensor.

An important feature is the measurement of both the target and the sensor body at the same time, which is equal to the temperature of the surrounding air.

This same characteristics also allows detecting the internal temperature rise of the panel, which can identify obstruction or ventilation failure or even temperature rise of equipment not directly monitored.

Sensors with opening angles of 7°, (other angles, on request) allow monitoring both well-defined points and areas of any dimension depending on the distance from the sensor to the area.

Each sensor has an LED that flashes on command from the relay to facilitate diagnosis and check the address. Different Alarm and Trip levels allow optimizing the protection system. Each relay can monitor up to 125 sensors. The Relay automatically indicates sensors not responding.

The data transmission method between sensors and relay uses RS-485 physical layer communication, with all sensors connected in parallel using shielded cables with mini-USB connectors that allow quick installation and operation without the need for any tools.

The Zyggot Temperature system relay can be connected to a communication network with a supervisory system or remote monitoring.

The ZYGGOT Relay has Ethernet communication with several protocols, and can be accessed from anywhere by mobile devices or not.

Note: Optionally available with Zyggot Arc Voltage protection system integrated in the same unit, saving space in the panel door and improving the interaction between the two protection systems.

## APPLICATION

Temperature monitoring and “On Line” protection of electrical connections and components for low and medium voltage electrical panels, transformers, motors, brakes, processes, etc.

## BENEFITS

- \* Prevents opening of the energized panel.
- \* Periodic thermography is not required.
- \* Provides target and indoor air readings.
- \* Non-contact measurement.
- \* Indicates possible sensor failure.
- \* Failure history.

## System Features with Tubular or BT Sensors

- \* Applicable in low (BT or Tubular) and medium voltage (Tubular).
- \* RS485 network with mini USB connections.
- \* Smart Sensors powered by the network itself.
- \* Measuring angle of 7° (15° and 60° consult).
- \* Continuous readings.
- \* Relays with touch screen color graphic display with Modbus RTU and Ethernet communication.
- \* Fault history with “Time Stamp”.
- \* Reading and over- temperature protection of up to 125 points (targets) or areas.
- \* Reading and over-temperature protection of up to 125 air temperature points (sensor body).
- \* Reading and protection of up to 125 sensor supply voltage (network supplied).
- \* Readings and protections related to 4 analog inputs.
- \* External fault monitoring.
- \* Monitoring of sensor states.
- \* 4 + 8 programmable digital inputs.
- \* 4 + 8 programmable digital outputs.
- \* Each sensor has an LED that flashes and can be controlled by the relay to facilitate its location and address on the network.
- \* «Fail Safe» mode operation.
- \* Optionally with Zyggot Arco system integrated in the same unit (Model FTA THM+ARC).
- \* **Protocols:**  
**MODBUS RTU:** Modbus by serial communication.  
**TCP/IP (Modbus Slave):** Modbus over Ethernet).  
**FTP:** (File Server) File Transfer Protocol.  
**NTP Protocol:** Network Time Protocol

## KEY POINTS

### MAIN ADVANTAGES

- TESTABLE WITH SYSTEM OFF
- WITH ETHERNET
- AVOID OPENING THE PANEL
- AVOID CONVENTIONAL THERMOGRAPHY
- EASY INSTALLATION-125 SENSORS P/ RELAY
- MEASUREMENT W/O ELECTRICAL CONTACT
- DOES NOT USE BATTERIES
- INDIRECTLY MEASURES THE WHOLE SYSTEM (AIR)
- PROVEN RELIABILITY
- EVENT HISTORY
- TEMPERATURE PLOT
- WORLD LEADING SYSTEM

The ZYGGOT system with tubular sensors was developed for low and medium voltage panels. The sensors measure temperature, without physical contact, by infrared detection and allow local and online reading and protection for up to 125 points per relay. Each sensor measures two levels of temperature: from the target and from the air surrounding the sensor (case) allowing detection of failures in unmeasured points, by indirect heating of the air. They are networked using mini USB cables, in sizes from 0.3 to 8.0 meters (supplied), allowing for quick, error-free and tool-free installation. The relay provides protection locally and also through a supervisory system. Alarm

### KEY POINTS

- \* Color Touch Screen.
- \* Has Ethernet communication with several protocols.
- \* Several built-in protections.
- \* Real-time graphical recording (Plot).
- \* History of failures and events.
- \* Continuous readings of target and surrounding air temperatures.
- \* Modbus RTU and Ethernet communication.
- \* Each relay presents up to 375 continuous measurements, namely: Temperature of 125 targets, Temperature of 125 sensor bodies (surrounding air), voltage of 125 temperature sensors (allowing monitoring of network integrity).
- \* Avoids opening of energized panel for possible thermography.
- \* Indirectly monitors undefined points, by increasing the temperature of the surrounding air.

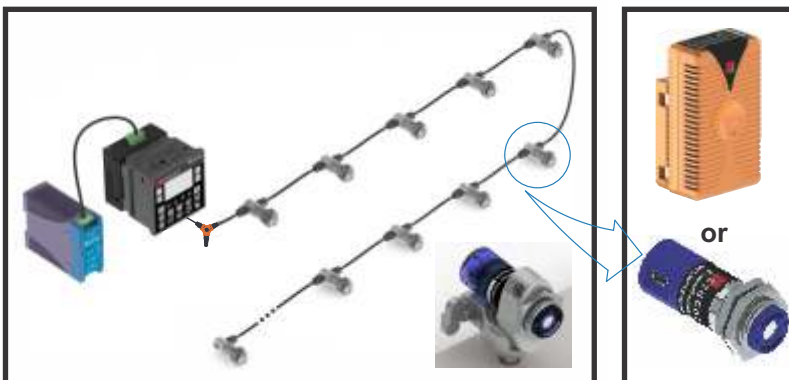
and trip levels are freely programmable for each point. An eventual failure in one of the sensors does not interrupt the operation of the other sensors. The BT Sensor is applied in low voltage MCCs, which require a high number of sensors in a small space, in addition to demanding a low cost. Its quick fixing base can be fixed by means of a screw or by means of a stainless steel fix tape directly on the bus to be monitored.

### APPLICATIONS

- Internally to panels, to avoid opening for periodic thermographs.
- Supervision of Transformers.
- Engine Supervision.
- Brake supervision.
- Non-contact process supervision.

### MAIN FEATURES

- Reads temperature of up to 125 targets per relay.
- Reads temperature of up to 125 sensors (body / surrounding air, allowing detection of temperature increase in points not directly monitored).
- Reads net supply voltage of up to 125 sensors.
- Configurable alarm and trip levels for temperature and analog inputs.
- Real-time graphic record for temperatures and analog inputs.
- Detection of differential temperature increase integrated into the relay and configurable by the user.
- Fault history and status.
- Continuous readings.
- 4 analog inputs with configurable alarm and trip levels.
- 4 + 8 digital inputs for external events or faults (ventilation, doors, etc.).
- 4 + 8 configurable digital outputs.
- Modbus RTU + Ethernet TCP IP. (All data accessible via Ethernet)





# HUNDREDS OF ACCESSIBLE SCREENS



1. MAIN SCREEN	7. TARGET ALARM	13. FLASH
2. TARGET	8. TARGET TRIP	14. ALARM
3. AIR	9. AIR ALARM	15. HISTORY
4. SELECTED	10. AIR TRIP	16. REPORT
5. FAILS	11. THM STATUS	MENU
6. TRENDS	12. DIFFERENTIAL	ESC

**varixx** >>

ZYGGOT THERMOGRAPHY /// VERS: ##.##

S. COMM OK:  HH:mm:ss  
dd-mm-yyyy  
WEDNESDY

S. COMM ERROR:

FAIL TRGT AIR NR 1 ALARM TRIP

ESC

PLANT: XXXXXXXXXXXX [JUST DATA] >>

LOCAL: XXXXXXXXXXXX [CARD DATA] >>

PANEL: XXXXXXXXXXXX [SYSTEM DATA]

INIT. DATE: ## ## ####

INIT. HOUR: ## : ## : ##

TIME ON: ##### [OK]

MEMORY CARD STATUS: [XXXXXXXXXXXXXXXXXXXX]

DATE FROM: ##-##-## [SENSOR PROGRAMMED: XX]

DATE TO: ##-##-## [TESTED BY: XX]

TESTED BY: XX

2

ESC

**MUTE ALARM** >>

**RESET FAIL** ESC

FAIL ACTIVE  ALARM UNACK  ALARM UNCLEAR

FAIL TRGT AIR NR 3 ALARM TRIP

<<

**FAIL SAFE SYSTEM** >>

FAIL SAFE MODE REQUIRES AUTOLOAD ENABLED, RETURN ENABLED AND FLASH BACKUP DONE. ONLY HAVE BACKUP TO FLASH AFTER ALL PARAMETERS ARE PROGRAMMED. TO CHANGE SETTINGS OR TO PROGRAM MENU.

MEMORY CARD STATUS: [XXXXXXXXXXXXXXXXXXXX]

AUTOLOAD ENABLED  AUTORUN ENABLED

FLASH BACKUP DONE  FLASH BACKUP CLEAR

AUTO RESTORE DONE  AUTO LOAD FAIL

ESC

REMOVE / INSERT CARD SAFELY >>

ZYGGOT BY XXXXXX TESTED BY: XX

MEMORY CARD STATUS: [XXXXXXXXXXXXXXXXXXXX]

WAIT  NO CARD  CARD OK

REMOVE / INSERT? TTT

READY TO REMOVE/INSERT

ESC

HIGHERS TEMPERATURES MS1 >>

> TARGET: ### TT ALL S. OK

> AIR: ### TT

SENSOR OK: ### SENSOR NR: ###

FAIL ACTIVE  ALARM UNACK  ALARM UNCLEAR

FAIL TRGT AIR NR 1 ALARM TRIP

ESC

READINGS MS2 >>

NEW SCAN: >>

0 READING SENSOR 125

READING SENSOR: ###

TIME TO AUTO SAVE DATA: #### @ : ## s

FAIL TRGT AIR NR 2 ALARM TRIP

ESC

STATISTIC MS3 >>

PROGRAMMED: ### TOTAL ALARMS ####

RESPONDING: ### TOTAL TRIPS ####

NOT RESP.: ###

SENSOR AIR W.U. ### SENSOR TRG W.U. ###

FAIL OT RCV NR 3 ALARM TRIP

ESC

DIGITAL I/O MS4 >>

D.IMP. 1: EXT. F-1	D.0UT. 1: ALARM
D.IMP. 2: EXT. F-2	D.0UT. 2: TRIP
D.IMP. 3: MUTE	D.0UT. 3: D.O. 3
D.IMP. 4: RESET	D.0UT. 4: D.O. 4

FAIL OT RCV NR 4 ALARM TRIP

ESC

MODBUS SERIAL RS232 MS5 >>

MODBUS ACTIVE  MODBUS INACTIVE

MODBUS OK  MODBUS ERROR

TIMEOUT  PARITY ERR  FRAME ERR

VALID MSG  OVERRUN  CHECKSUM

MODBUS STATUS: [XXXXXXXXXXXXXXXXXXXX]

FAIL OT RCV NR 7 ALARM TRIP

ESC

ETHERNET COMMUNICATION MS6 >>

LINKED  NOT LINKED

HALF DUPLEX  FULL DUPLEX

SPEED 10 Mbps  SPEED 100 Mbps

TX  RX

FAIL OT RCV NR 8 ALARM TRIP

ESC

MAIN FAILS MS9 >>

TARGET ALARM  AIR ALARM

TARGET TRIP  AIR TRIP

DIFF ALARM  DIFF TRIP

S. COMM FAIL  NOT RESP.

FAIL TRGT AIR NR 9 ALARM TRIP

ESC

MANUAL SAVE DATA MS10 >>

**SAVE TARGET TEMPERATURES** **SAVE AIR TEMPERATURES**

BACKUP STATUS: [XXXXXXXXXXXXXXXXXXXX]

MEMORY CARD STATUS: [XXXXXXXXXXXXXXXXXXXX]

FAIL TRGT AIR NR 10 ALARM TRIP

ESC

TARGET T01 >>

TT

T001: ####	T004: ####
T002: ####	T005: ####
T003: ####	T006: ####

ESC

FAILS MUTE ALARM RESET FAIL AF1 >>

TARGET TRIP

TARGET ALARM

AIR TRIP

AIR ALARM

ALARM STATE ACTIVE  TRIP STATE OUTPUT

FAIL ACTIVE  ALARM UNACK  ALARM UNCLEAR

ESC

THM SENSOR VOLTAGE (V) W01 TV01 >>

V001: ###	V011: ###	V021: ###
V002: ###	V012: ###	V022: ###
V003: ###	V013: ###	V023: ###
V004: ###	V014: ###	V024: ###
V005: ###	V015: ###	V025: ###
V006: ###	V016: ###	V026: ###
V007: ###	V017: ###	V027: ###
V008: ###	V018: ###	V028: ###
V009: ###	V019: ###	V029: ###
V010: ###	V020: ###	V030: ###

ESC

FAILS MUTE ALARM RESET FAIL AF5 >>

EXCESS OPERATING HOURS

SENSOR COMM FAIL

MODBUS COMM FAIL

SENSOR NR:

DIFFERENTIAL

ALARM STATE ACTIVE  TRIP STATE OUTPUT

FAIL ACTIVE  ALARM UNACK  ALARM UNCLEAR

ESC

# FOR EASY ACCESS TO ALL FUNCTIONS



**FAILS** **MUTE ALARM** **RESET FAIL** **AF6** >>

G1 TARGET ALARM	G1 AIR ALARM
G2 TARGET ALARM	G2 AIR ALARM
G3 TARGET ALARM	G3 AIR ALARM
G4 TARGET ALARM	G4 AIR ALARM
G5 TARGET ALARM	G5 AIR ALARM

ALARM STATE ACTIVE TRIP STATE OUTPUT

FAIL ACTIVE ALARM UNACK ALARM UNCLEAR

ESC

**SCALE** 50 g **SENSOR:** 9 **ALL TARGET** **T1** >>

ESC

**SCALE** 5.000 5.000 5.000 **T3** >>

ESC

**S:** 50 **A:** 100 **T18** >>

Pen1 28  
Pen2 38  
Pen3 26  
Pen4 55

ESC

**TARGET ALARM** **TA1** >>

T 001	T 006	T 011
T 002	T 007	T 012
T 003	T 008	T 013
T 004	T 009	T 014
T 005	T 010	T 015

ESC

**TARGET TRIP** **TT1** >>

T 001	T 006	T 011
T 002	T 007	T 012
T 003	T 008	T 013
T 004	T 009	T 014
T 005	T 010	T 015

ESC

**NOT RESPONDING** **NR1** >>

S 001	S 006	S 011
S 002	S 007	S 012
S 003	S 008	S 013
S 004	S 009	S 014
S 005	S 010	S 015

ESC

**D.T.** **D.T.** **TT** >>

D###	###
D###	###
D###	###
D###	###
D###	###

ESC

**ETHERNET** **ETH1** >>

IP ADDRESS: ###.###.###.###

NET MASK: ###.###.###.###

GATEWAY: ###.###.###.###

LINK: NOT LINKED CONNECTIONS: ###

ESC

**ETHERNET** **ETH2** >>

HALF DUPLEX FULL DUPLEX

SPEED 10 Mbps SPEED 100 Mbps

Tx Rx

LINK CONNECTIONS: ###

ESC

**ETHERNET** **ETH3** >>

PING ADDRESS: ###.###.###.###

PING RESPONSE TIME: #####.### mS

Tx Rx PING TIMEOUT

**START** **STOP**

ESC

**ETHERNET** **ETH4** >>

MODE: [TCP]

PORT: [502]

ENABLE WRITE INHIBITION: TTTTT

ESC

**ALARM**

FAIL TRG AIR

MUTE ALARM

RESET FAIL

**HISTORY**

FAIL TRG AIR

MUTE ALARM

RESET FAIL

**MAIN MENU**

RELAY CONFIG

PARAMETERS CFG

SENSORS

BLOCK PROGRAMMING

ANALOG INPUTS

MODBUS CFG

PROTECTIONS

TARGET ALARM LVLS

TARGET TRIP LEVELS

TRENDING CONFIG

CLEAR DATA

BACKUP/RESTORE DATA

ESC

**RELAY CONFIG**

LANGUAGE: XXXXXX

SET REAL TIME CLOCK: >

SCREEN BRIGHTNESS: XXX %

SAVE SCREEN (N. FAIL): XXX

SAVE SCREEN TIME: XXX m

SAVING BRIGHTNESS: XXX %

PLANT: XXXXXXXXXX

LOCATION: XXXXXXXXXX

PANEL: XXXXXXXXXX

MEM CARD ERROR ACT: XXXX

MENU PASS: \*\*\*\*\*

CLONE PASS: \*\*\*\*\*

RST DIFFER. PASS: \*\*\*\*\*

ESC

EXIT

CAUTION >>> BACKUP/RESTORE DATA TO/FROM INTERNAL FLASH MEMORY. AVOID W/ THE RELAY OPERATIONAL!!

ACTUAL DATA IN THE FLASH WILL BE OVERWRITTEN FROM THE OPERATIONAL DATA IF COMMAND BACKUP IS USED!!

ACTUAL OPERATIONAL DATA WILL BE RESTORED FROM THE FLASH DATA IF AUTOLOAD EVENT OCCUR!!

MEMORY CARD STATUS: |

BACKUP STATUS: |

FLASH BACKUP CLEAR: FLASH BACKUP DONE

CLEAR BACKUP? TTT

MAKE BACKUP? TTT

ESC

CAUTION >>> BACKUP OR RESTORE DATA TO/FROM THE CARD MEMORY. AVOID USE W/ THE RELAY OPERATIONAL!!

ACTUAL DATA IN THE MEMORY CARD WILL BE OVERWRITTEN FROM THE RELAY DATA IF COMMAND BACKUP IS USED!!

ACTUAL RELAY DATA WILL BE RESTORED FROM THE FLASH DATA IF COMMAND RESTORE IS USED!!

MEMORY CARD STATUS: |

BACKUP STATUS: |

BACKUP? TTT

RESTORE? TTT

ESC

COD: VZX/V5F/N ou VZX/V5F/S

**RELAY 96 X 125 Touch Screen**

**Technical information**

**V5F RELAY FEATURES**

Power Supply	24 VDC
Moisture	5 to 95%
Sensores N.	up to 125 sensors
Resolution	1°C
Inputs	4 analogue 4 digital (24VDC)
Outputs	2 outputs for Alarme and Trip (N.O.) 2 programmable outputs (N.O.) 1 output for connection of the sensors
Communication	Modbus RTU Devicenet (optional) Ethernet TCP-IP (Included)
Screen	Color, Touch Screen WVGA

**RELAY**  
Relays are available in 4 models

**VZX/B1/U:** with monochromatic liquid crystal display and keys (see specific manual).

**VZX/V5L/N** or **VZX/V5L/S:** with color touch screen, normal (end N) or Fail Safe (end S).

**VZX/V5F/N** or **VZX/V5F/S:** Same as VZX/V5L but with expansion modules for 12 digital inputs and 12 outputs (See Specific Manual).

COD: VST/M/7/300/24

**TUBULAR SENSOR**

**Technical information**

**FEATURES: EBLOCK 88x (x=D or x=R)**

Power Supply	24 VDC (10 - 30 VDC) 2W
Moisture	5 to 95%
Communication	CAN
Temperature	Oper: 0 to 60 °C /// Armaz: -10 to +60 °C
Inputs	8 Digital Inputs (12 - 24 VDC)
Outputs	Model 88D = 8 Digital Outputs (DC) Model 88R = 8 Digital Output (Relay)
Inputs	Imp.: 10K /// Treshold: 8 VDC / 3 VDC
Distance Max	1000 M
Output Current (Model 88D)	2,5 A Max per point /// 10A Total Max (model 88D)
Output (mod 88R)	3,0 A @ 250 VAC Res. Max (mod. 88R)

**SENSORS**  
Sensors are available in two models.

**VST/M/7/300/24:** tubular sensor, for medium and low voltage applications.

**VS/M/60/120/24:** LV sensor, for low voltage bus applications.

Both with two mini USB connections for connecting cables.

COD: ZSB/M/60/120/24

**BT SENSOR**

**Technical information**

**FEATURES: TUBULAR SENSOR**

Measurement angle:	7°
Typical read error (*):	+/- 0,5°C (trg: 0-125°C)
Normal Distribution (125 s):	0.48°C at 80°C target
Emissivity:	Programmable (0,95 std)
Resolution:	1°C
Target reading:	0 to 300 °C
Environment reading:	0 to 75 °C
Power:	24 Vcc
Diameter:	19 mm
Length:	53 mm
Communication:	Modbus RTU
Material:	Stainless Steel / Polycarbonate

(\* See test report at the end of this manual)

COD: ZA232-2

**Y SPLIT DERIVATOR RS232**

COD: VPS6024 ou VPS 12024

**POWER SUPPLY 24 VDC**

Included with each sensor

**Quick Fix Support for the BT Sensor**

**Technical information**

**FEATURES: BT SENSOR**

Measurement angle:	120°
Typical read error (*):	+/- 0,5°C (trg: 0-125°C)
Normal Distribution (125 s):	0.48°C at 80°C target
Emissivity:	Programmable (0,95 std)
Resolution:	1°C
Target reading:	0 to 120 °C
Environment reading:	0 to 75 °C
Power:	24 Vcc
Diameter:	54 mm
Length:	31 mm
Communication:	Modbus RTU
Material:	Polycarbonate

(\* See test report at the end of this manual)

COD: V5CON (included with each Relay)

**INTERFACE**

COD: EB/88D ou EB/88R (Para ser utilizado com o relé V5F)

**EBLOCK P/ MODELO V5F**

**Informações Técnicas**

**Connectors: EB/88D & EB 88R (\*)**

1:	Digital Outputs / Relay Outputs
2:	NET address selection switches
3:	LEDs de status
4:	Inputs
5:	CAN & Power Supply
6:	Ground
7:	CAN RJ45

# ACCESSORIES AND SPARE PARTS

Accessory

COD: VPS6024 or VPS12024



POWER SOURCE

Accessory

COD: ZSF2



Support for fixing and sight for tubular

Accessory

COD: VZX/B1/U ou VZX/B1/U/P



SUITCASE WITH LASER SIGHT

Accessory



Y-split Derivator, USB cables and terminating resistor

Accessory

COD: VLP2



Laser sight attachable to tubular sensor for startup

Accessory

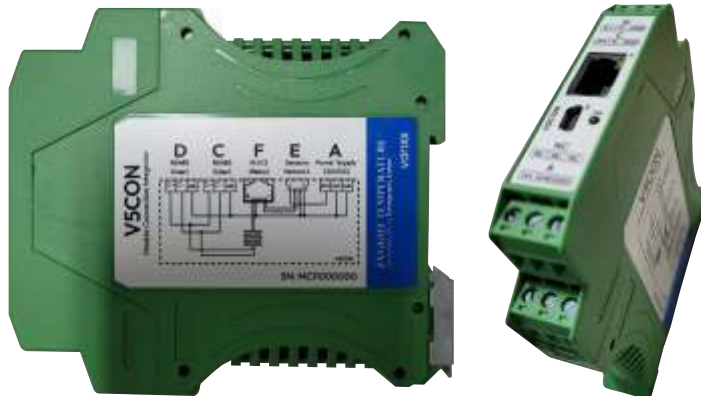
COD: ZA232-2



DERIVADOR RS232

Accessory

COD: V5CON  
(included in each Relay)



Interface

Acessório

COD: RJ45/C2  
(Included in each module V5CON and each Eblock)



RJ45 CABLE







# ABOUT VARIXX

For over 40 years, Varixx has followed its vocation for the development of high technology products and focuses its efforts on serving the industrial market with quality and speed. The know-how in power electronics has allowed us to offer the market a wide range of products that have become known for their long service life and reliability. We were the creators of the global online thermography market, with the Zyggo line, which is becoming a world reference in the market for temperature monitoring and diagnostics and arc-flash detection, in electrical systems in general. Also part of our product portfolio are the LED lighting fixtures from our ONNO division, developed and manufactured 100% in Brazil with cutting-edge technology. Varixx values the introduction of innovative concepts worldwide.

# AREAS OF EXPERTISE

- ✓ **MANUFACTURERS OF MACHINE GENERATORS AND SYNCHRONOUS MOTORS**  
Static Exciters, Control Box Controllers, Low and Medium Voltage Soft
- ✓ **ALUMINUM AND HYDROGEN / OXYGEN PRODUCTION**  
High Current Rectifiers, Solid State Contactors, Smart Relay for CCM, Online Thermography System and Arc Voltage Detection and Onno LED Luminaires.
- ✓ **BASE INDUSTRY, MINING AND STEEL INDUSTRY**  
Smart Relays for CCM's, Low and Medium Voltage Soft Starters, Solid State Contactors, AC/DC Converters for Electromagnets, High Current Rectifiers, Online Thermography System, Arc Voltage Detection and Protection and Onno LED Luminaires.
- ✓ **OIL COMPANIES**  
Smart Relays for CCM's, Static Excitation, Low and Medium Voltage Soft Starters, Solid State Contactors, Online Thermography System, Arc Voltage Detection and Protection and Onno LED Luminaires.
- ✓ **PANEL ASSEMBLY COMPANIES**  
Smart Relays for CCM's, Online Thermography, Arc Voltage Detection and Protection System, Semiconductors, Power Supplies and Onno LED Luminaires.

## Why ZYGGOT Thermography?

 <b>SINGLE CABLE / EASY TO INSTALL</b>	 <b>PREDICTIVE / DIFFERENTIAL PROTECTION</b>	 <b>ADEQUACY TO NR-10 AVOID ACCIDENTS</b>
 <b>AVOID OPENING PANEL / AVOID CATASTROPHIC FAILURES</b>	 <b>WAIVER CONVENTIONAL THERMOGRAPHY / MEASURE AIR TEMP. TOO</b>	 <b>NO CONTACT / WITH ETHERNET COMMUNICATION</b>

## KNOW MORE!

### ZYGGOT ARC ARC FLASH PROTECTION SYSTEM

- ✓ **Low Cost // Up to 50 sensors per relay.**
- ✓ **First in the market // Faster (300 uS vs 6 mS)**
- ✓ **Ultraviolet arc-flash detection**
- ✓ **Does not work with ambient light (False Alarm)**
- ✓ **No current reading**



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