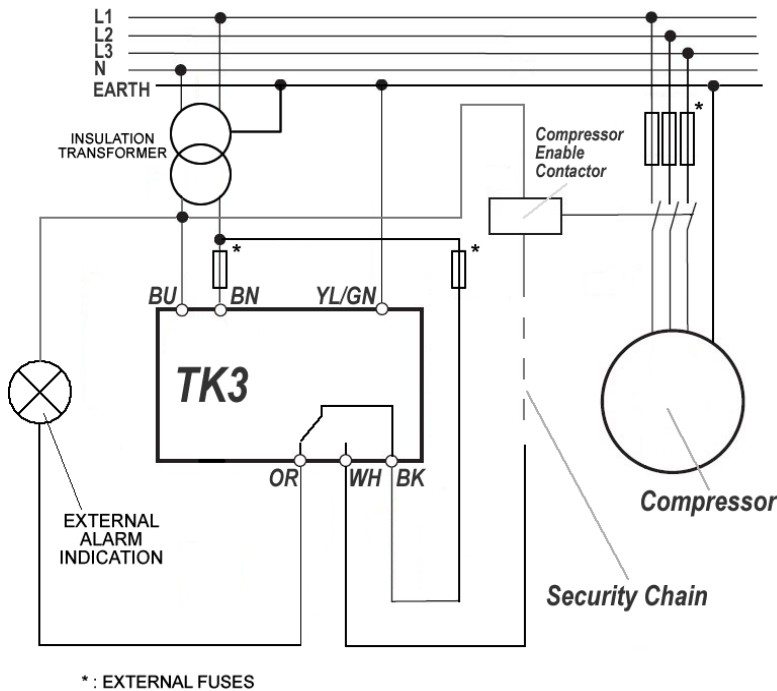


Technical Data

Supply voltage	230 VAC ± 10% @ 50 Hz
Supply Power	Each TK3 require 20VA.
Electrical connection	Cable wiring and dedicated Connector for solenoid valve.
Output signal	Contact free relay output NO and NC
Relay outputs	Up to 230VAC @2A The Normally Open (NO) alarm contact (white wire) is closed when power is applied to the TK3
Housing material	Nickel plated steel
Enclosure protection class	IP 65
Media Temperature	-40°C..+85°C
Ambient temperature	-40°C..+60°C
Max working pressure	46 bar (higher values upon request)
MOPD	26 bar (higher values upon request)
Oil Return Line	7/16 – 20 UNEF male
Cable Type	PVC cable CEI 20-22. Working temp.: -20 ÷ +70 °C (fixed laying)

Electrical Connections



Wiring Example.

To obtain a better immunity against noise eventually present on power wires it is recommended to use an insulation transformer to power the TK3

Cable wiring

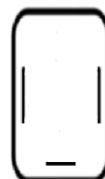
Power section:

Brown (BN): Line
Blue (BU): Neutral
Yellow/Green (YL/GN): Potential Earth

Relay output section:

Black (BK): Common
White (WH): NO Contact (open in alarm)
Orange (OR): NC Contact (closed in alarm)

Valve Connection EN 175301-803
size B IND

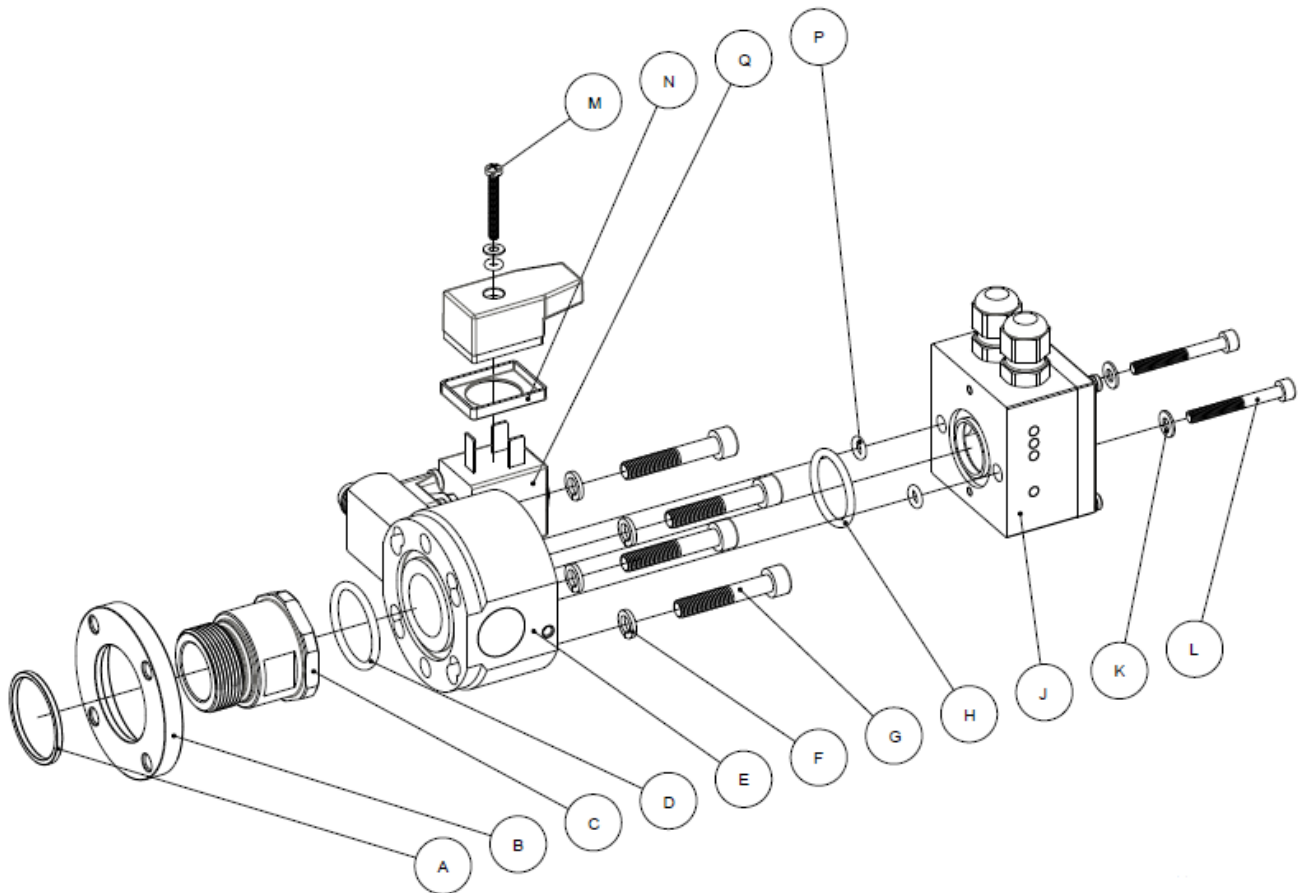


The coil is connected between pins 1 and 2 and it is directly driven by the electronics of the TK3.

Installation notes

- Only qualified personnel should carry out installation/maintenance
- Protect hands and face from contacting the oil, which may contain harmful acid.
- Depressurize the system before attempting any work
- Switch off power supply and isolate compressor
- If fitting to an existing installation, drain the compressor crankcase to just under the oil level sight glass.
- Mount the TK3 body on the compressor (see below).
- The correct oil level in the compressor crankcase must be reached before restarting the system.

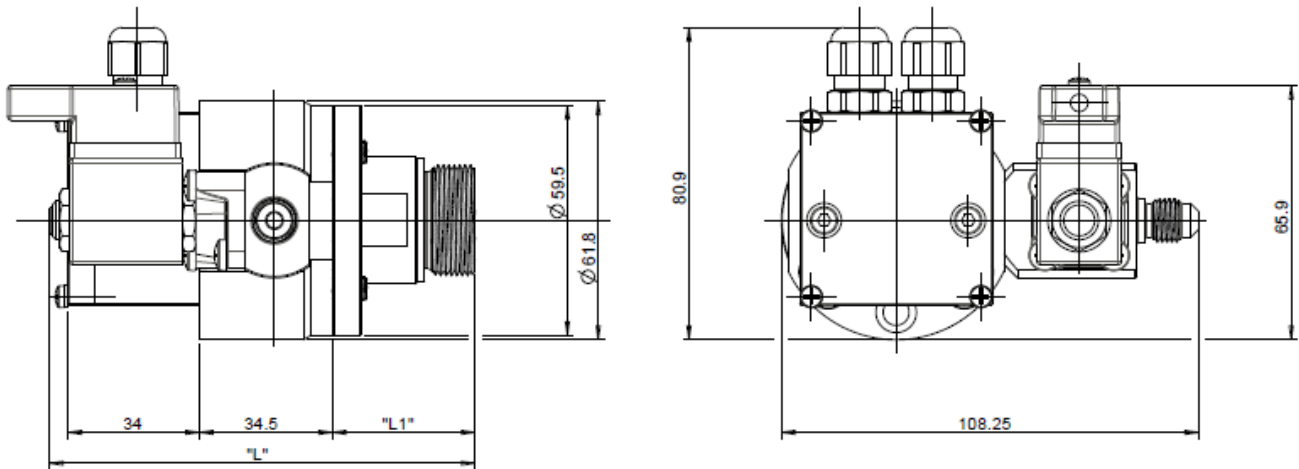
Installation instructions



- Ensure that both the glass surfaces of the Electronic Box and of the TK3 for the electronic are dry and clean.
- Mount the TK3 body on the compressor with 3 or 4 supplied bolts and washers using proper o-ring for the flange.
- Mount the electro-optic sensor on the TK3 body using the 2 supplied bolts and plastic washers using supplied o-ring for electronic.
- Plug the Valve connector to the coil of the valve using supplied gasket and screw.
- Plug the Alarm and the Power connectors to the electro-optic sensor using supplied gaskets and screws.

Note. If the TK3 need an adapter to be mounted onto the compressor, first mount the adapter onto the compressor then assemble the TK3 with the adapter.

Mechanical Dimensions



Note. - Quotes in mm - . L and L1 can vary depending on the adapter (see TK3 Adapter Addendum)

Ordering Code Examples with mentioned timings (Other possibilities and timings available on request)

	230Vac Cable glands version – 1 m cable
Oil Level regulator TK3	TK3-20F6V00016000450
1" 1/8 – 18 UNEF Adapter	TK3-A001000000000000
¾" NPT Adapter	TK3-A002000000000000
3/4/6 bolts flange Adapter	TK3-A003000000000000

Recommendations

Teklab recommends the use of a 10-micron filter in the oil line in order to protect the sensor from contamination.

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This document replaces all earlier versions.