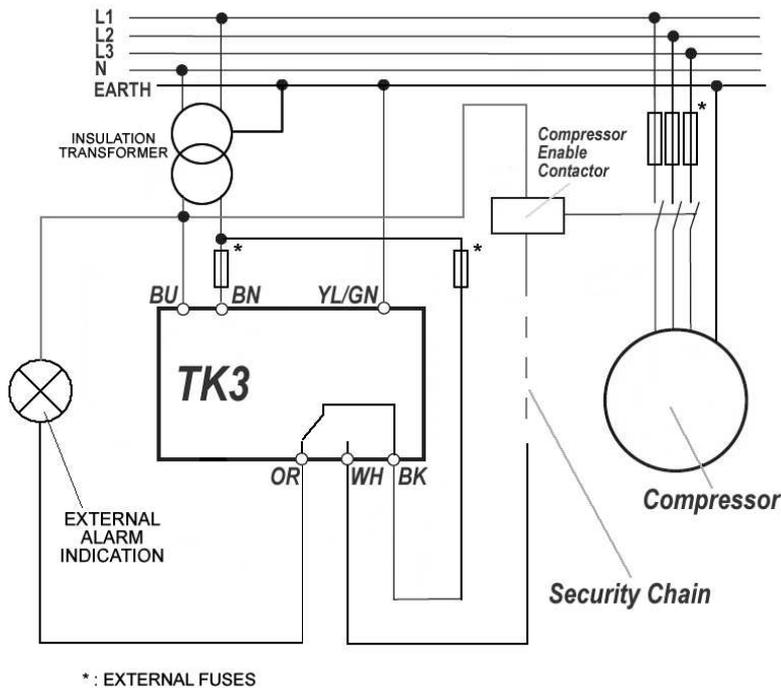




## Technical Data

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

### 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

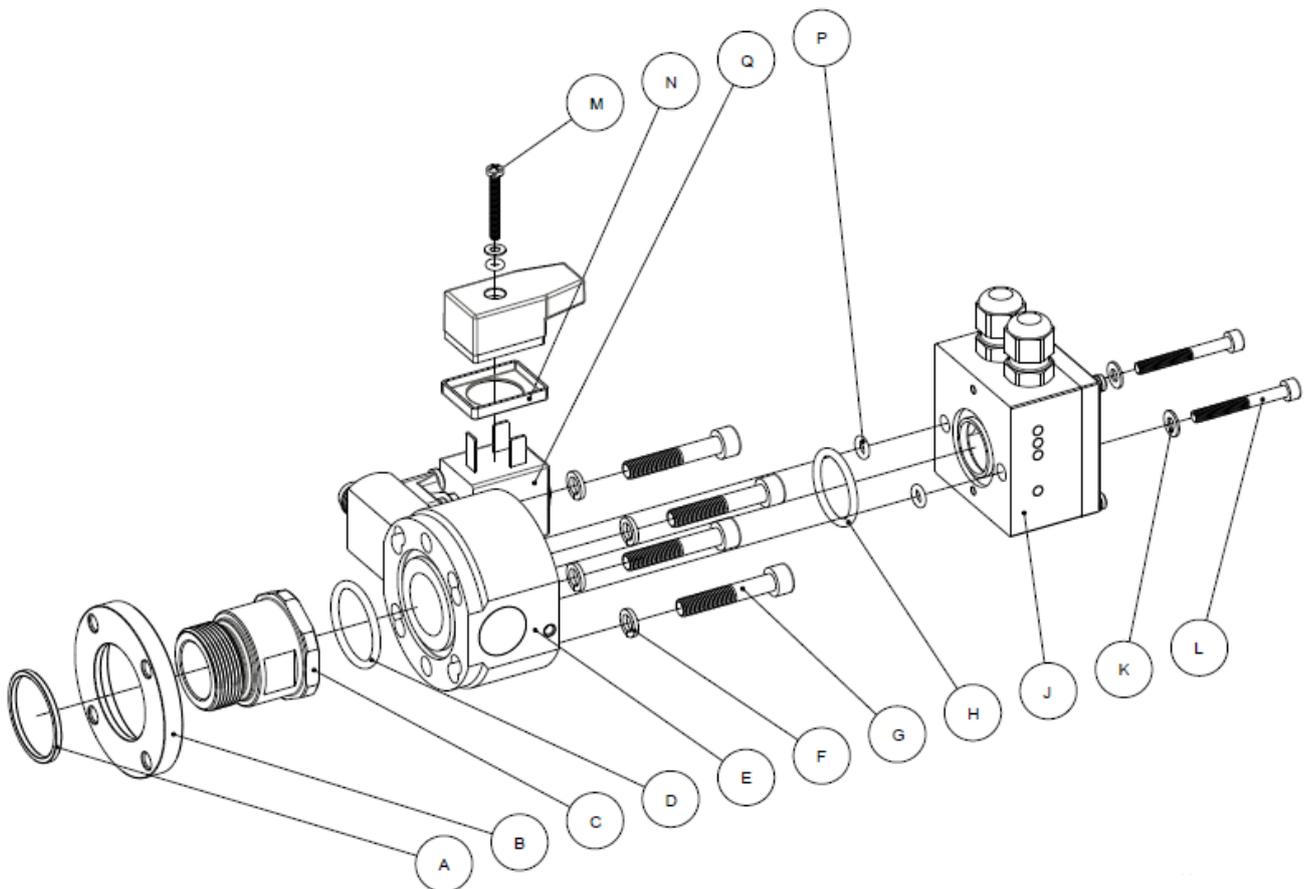


The coil is connected between pins 1 and 2 and it is directly driven by the electronics of the TK3<sup>+</sup>.

## 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<sup>+</sup> body on the compressor (see below).
- The correct oil level in the compressor crankcase must be reached before restarting the system.

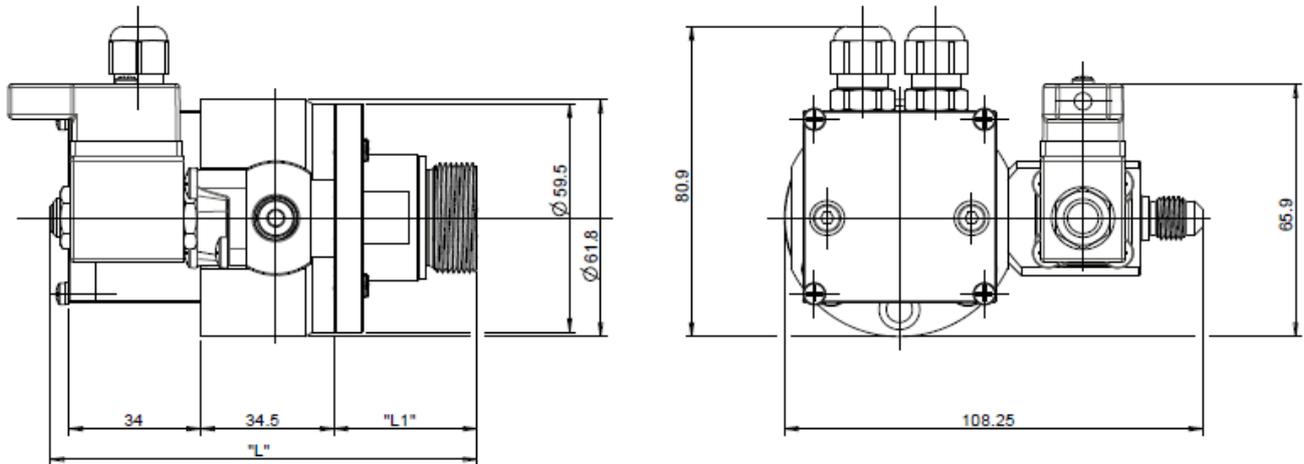
## Installation instructions



- Ensure that both the glass surfaces of the Electronic Box and of the TK3<sup>+</sup> for the electronic are dry and clean.
- Mount the TK3<sup>+</sup> 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<sup>+</sup> 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<sup>+</sup> need an adapter to be mounted onto the compressor, first mount the adapter onto the compressor then assemble the TK3<sup>+</sup> with the adapter.

## Mechanical Dimensions



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

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

Oil Level regulator - 230V AC Cable glands version – 3 m cable	
TK3 <sup>+</sup> Oil Level regulator with integrated filtering element	TK3P-A20BB13-01
TK3 <sup>+</sup> Oil Level regulator with no filtering element	TK3P-A50BB13-01
1" 1/8 – 18 UNEF Adapter	TKX-A001
3/4" NPT Adapter	TKX-A002
3/4/6 bolts flange Adapter	TKX-A003