

OUT680T Oil level controller

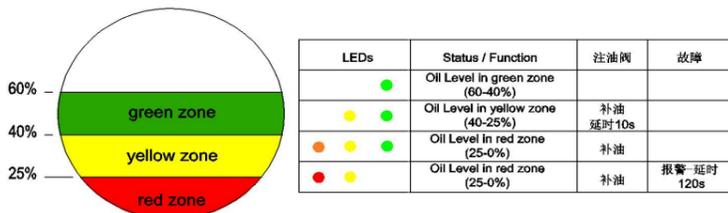


OUT680 monitors and controls the oil level in the refrigerant compressors. In particular, the problem of bad oil distribution in multi-compressor packs is solved, thanks to active oil supply from a shared oil reservoir. The oil level regulator keeps the oil level between 40% to 60% height of the sight glass.

Features

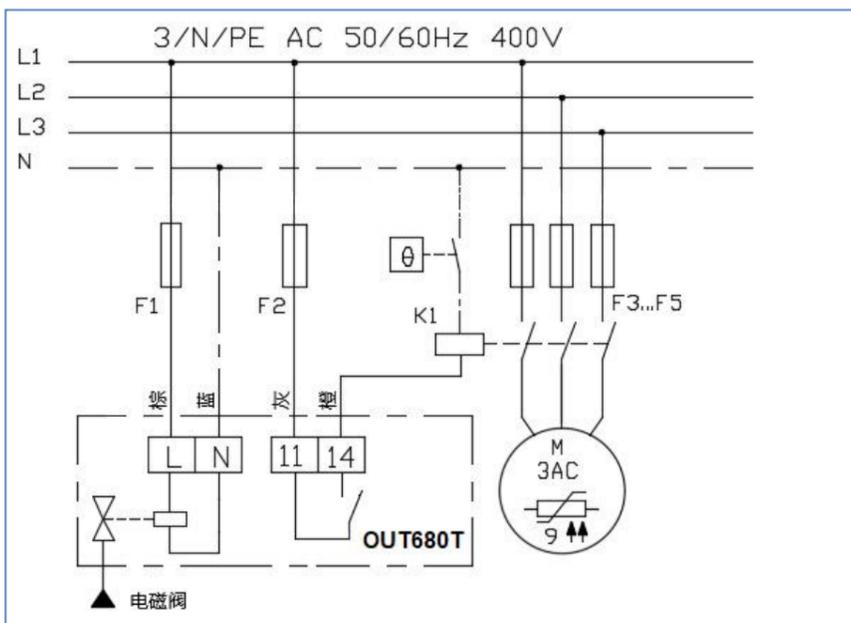
- 3 Zone level Control by using precise Hall-Sensor measurement, not prone to errors by foaming or light like optical sensors.
- Alarm, status and level indication by LED's
- Easy installation by sight-glass replacement and front side mounting without nuts
- High quality integral solenoid valve and High anti-fouling;
- Self contained unit with oil level sensor and integral solenoid to manage oil level supply
- Inlet filter, oil optic mirror, filling valve removable cleaning
- Applicable to HIGH and LOW pressure oil management system;
- Adapters suitable for various types of compressors
- Heart metal floating swing arm for review

Sight-Glass Level Control Zones



Right—Green ON/OFF- OUT relay ON/OFF (Alarm)
 Mid.—Yellow ON/OFF- Injection ON/OFF
 Left—Orange/Red: Low oil level/Oil Level Failure

Wiring diagram (suggestion)



Order data

OUT680 T- 1 2 / F34

Type

T: SPNO

Supply voltage 1: 230V 50/60Hz

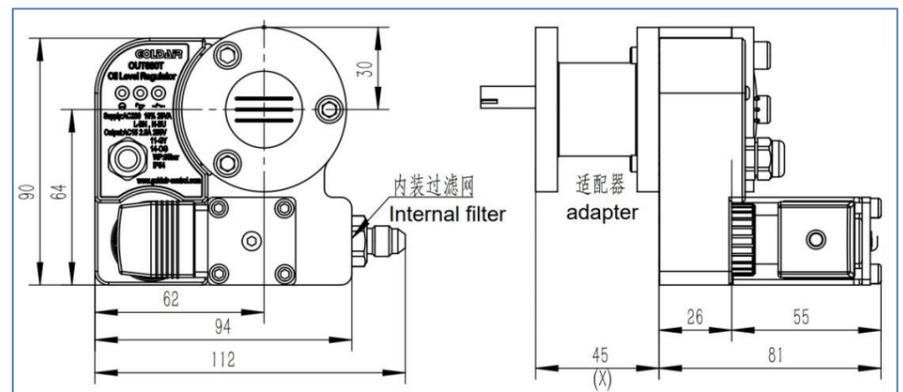
Length wire 2: 2.0M

Adaptor F34: Flange adapter 3-/4- hole
 118: Screw adapter 1-1/8"-18UNEF
 114: Rotalock adapter 1-1/4"-12UNF
 134: Rotalock adapter 1-3/4"-12UNF
 34N: Screw adapter 3/4"-14NPTF

Technical Data

Supply voltage	AC50/60Hz230V±10% 23VA AC/DC 24V±10% 19VA
Ambient/Storage temperature	-30...+60°C
Humidity	10...95%, No condensation
Medium temperature	-20...+120°C
Working pressure PS	-1...60bar
Test pressure PT	69bar
Max. supply oil Differential pressure	30bar
Output	AC 240V,2.5A, C300; > 24V AC/DC> 20mA
Mechanical service life	Approx. 3x10 ⁶ switching cycles
Connectable	5xAWG20 ,length 1m, colour coded
Protectionclass (EN 60529)	IP65
Materials	Aluminium; PA66/PA6+GF
Oil connection	7/16"-20 UNF
Permitted oils	Standard mineral and ester oil,without additive
Permitted refrigerants	HFC,HCFC,CFC,CO2
Mounting position	Horizontal ,+/-1°
Weight (notincluding adapter)	About 1.0kg

Dimensions in mm



Installation

1. Must use oil with oil storage type or oil storage, and the outlet must not have a float valve; Check the flexibility of the swing arm to follow the oil level regularly. If the magnetic swing arm float is adsorbed by black grease, please clean it in time.
2. The lubricant temp before entering the electronic level control should not be higher than 80°C, in order to make the lubricant get natural cooling, please use copper pipe for the main supply pipe and branch pipe, recommended main tube 7/8", branch 1/4";
3. A 300-eye (50um) fine filter must be equipped with the main oil supply pipe, to prevent the solenoid valve seat from getting dirty.
4. There is a filter inside the oil connection port. If necessary, remove the oil connection port and clean the filter