

Temperature and leakage relay type ABS CA 462

SULZER

CA 462 is designed to spy and detect leakage and temperature in pumps and mixers. The amplifier is housed in a norm enclosure fitted for DIN-rail mounting. The unit is available in two executions, 24 VDC or 110-230 VAC supply. To minimize the risk of false alarms the leakage failure has to be detected for time duration of approximately 10 seconds. To simplify the mounting the unit is fitted with plug-in type of connectors.




The unit has separate alarm outputs for temperature and leakage. CA 462 also has main contactor relay output energized depending on alarm/s with manual reset option. Included in the kit is also a Xylem MiniCas adaptor.

Features:

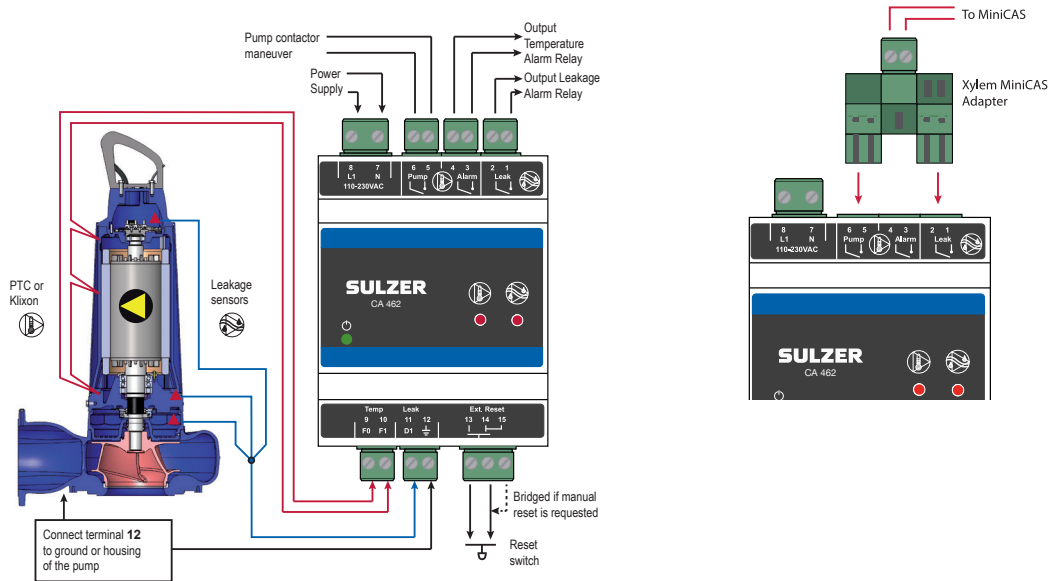
- Leakage monitoring with 10 sec alarm delay
- Temperature monitoring
- Relay output 250 VAC 3 Ampere
- Connection via plug-in connectors
- DIN-rail mounted



Technical specifications

Description		Standard
Temperature input threshold (±10%)		> 3.3 kohm (PTC / Klixon)
Max PTC current		< 0.6 mA
PTC source voltage		12 VDC
Leakage sensor voltage		12 VDC
Max leakage sensor current		< 15 µA
Leakage detection threshold (±10%)		< 100 kohms
Leakage alarm delay		10 seconds
Ambient operating temperature		-20 to +50 °C (-4 to +122 °F)
Ambient storage temperature		-30 to +80 °C (-22 to +176 °F)
Degree of protection		IP 20, NEMA: Type 1
Housing material		PPO and PC
Mounting		DIN Rail 35 mm
Installation category		CAT II
Pollution degree		2
Flame rate		V0 (E45329)
Humidity		0-95 % RH non-condensing
Dimensions		H x W x D: 108 x 70 x 58 mm (4.25 x 2.76 x 2.28 inch)
Power supply	16907006	110-230 VAC, 50 Hz/60 Hz
	16907007	18-36 VDC, SELV or Class 2
Fuse		Max 10 A
Terminal wire size		Use copper (Cu) wire only. 0.2 - 2.5 mm ² flexible core, stripped length 8 mm.
Terminal tightening torque		0.56 - 0.79 Nm (5-7 lbs-in)
Power consumption		< 5 W
Max load alarm relays		250 VAC 3 Ampere resistive load
Altitude		Max 2000 MASL or 6562 ft. AMSL
Max load output pump blocking relay		250 VAC 6 Ampere resistive load
Compliance		  

Electrical connection diagram



Alarm and relay function table

Alarm type	Alarm LED		Input state		Output relay state			Remark
	Temperature	Leakage	Temp (9 & 10)	Leak (11 & 12)	Pump (5 & 6)	Alarm (4 & 3)	Leak (2 & 1)	
			closed	open	closed	open	open	Normal operation
Temperature	Yes	-	> 3.3 kohm	open	open	closed	open	Pump stops
Leakage	-	Yes	closed	< 100 kohm	closed	open	closed	Pump runs
Temp. + Leak.	Yes	Yes	> 3.3 kohm	< 100 kohm	open	closed	closed	Pump stops

Dimensions

