

- **Non intrusive current detection**

0.1A threshold detection, input current > 200A

- **24Vdc, 200mA output**

can power a lamp indicator
or a contactor

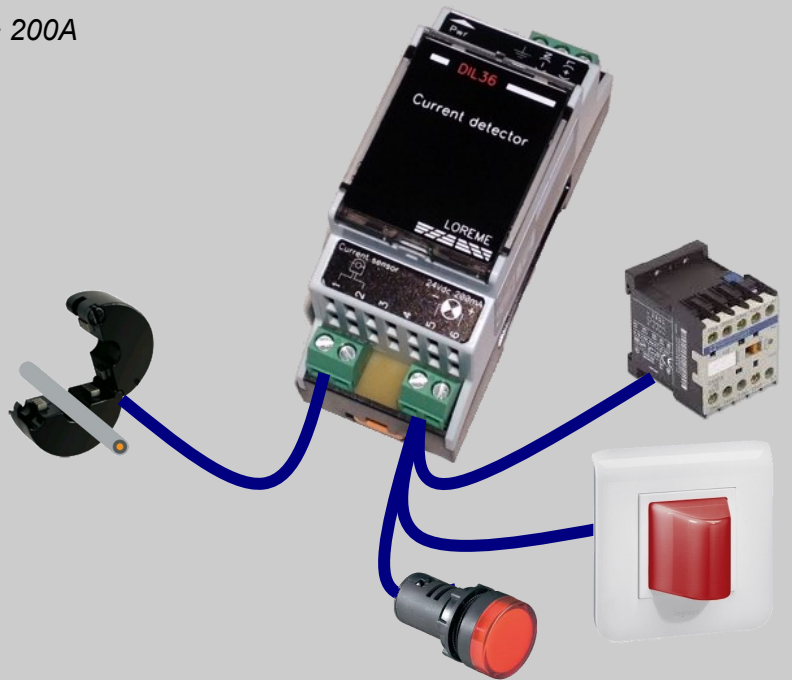
- **DIN rail mounting**

- **Application**

non intrusive detection of starting up
of machine or installation
Radiology equipment

- **Universal power supply**

20....265Vac-dc



The DIL36 is a relay with fixed threshold for alternating current. It allows to economically solve the detection of starting up or stopping of equipment. The split-core current sensor can be implemented in an existing installation without modification. It's output can drive an lamp indicator, a relay or a contactor.

Description :

- Current input on remote split core current sensor. Type: Tio d8 mA
- Threshold detection : 100 mA ac +/- 20%
- 24Vdc output, 200mA max, short circuits protected (indicator light)
- Output activated if primary current detected
- Detection delay < 100 ms (primary current presence)
- Release delay < 1 second (absence of primary current)

Characteristics :

- long term repeatability : better than 0.1 % / year.
- Operating temperature : up to 65°C
- Resistant to shocks and vibrations.

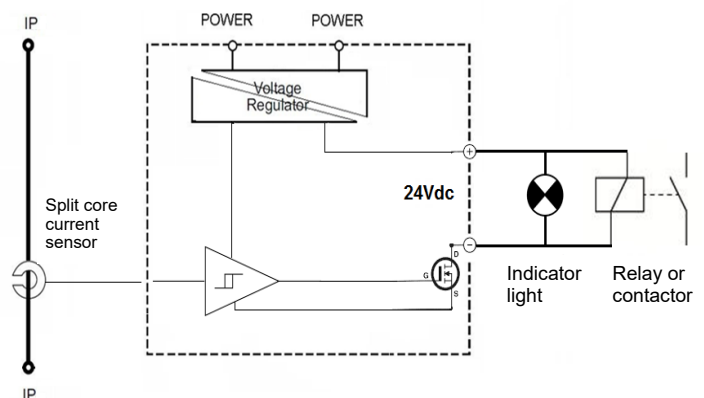
Feature :

- Green LED indicator for main supply
- symmetrical DIN rail mounting according to EN50022
- Connection with screw terminals (wire: 2.5 mm²)
- Isolation : power supply / input / relay
- Protection rating : IP 20 + conformal coating

Associated sensor: Tio d8 mA



Synoptic:



Version and order code:

DIL36 : - sensing relay supplied with Tio d8 mA

INPUT

TYPE	RANGE
Current	0.1Aac200Aac
Internal protection against peak current with transient voltage suppressor diode	
Threshold current detection :	100 mA
Response time :	< 100 ms (standard)
Overcurrent max.	10kA 1 second

OUTPUT

Static output with MOSFET transistor (open drain)
Polarization voltage for external load: 24 Vdc +/- 15%
Load current : 200 mA maxi

POWER SUPPLY

Universal, not polarized, direct or alternating current
20.....265Vac/dc, consumption < 5 VA

ENVIRONMENT

Operating temperature :	-20 to 65 °C
Storage temperature :	-40 to +85 °C
Influence on current threshold:	< 0.02 % / °C
Humidity :	85 % non condensing

Protection rating: (according to EN 60 529)	IP 20
Weight:	100 g
Dielectric strength (power supply / input, output)	2500 Vac continuous

MTBF (MIL HDBK 217F)	> 1 500 000 Hrs @ 25°C
Life time	> 200 000 Hrs @ 30°C

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011 group 1 class A
EN 61000-4-3 RF	EN 61000-4-9 pulse MF	
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave	
EN 61000-4-6 RF	EN 61000-4-29 DC dips	



WIRING AND OUTLINE DIMENSIONS

