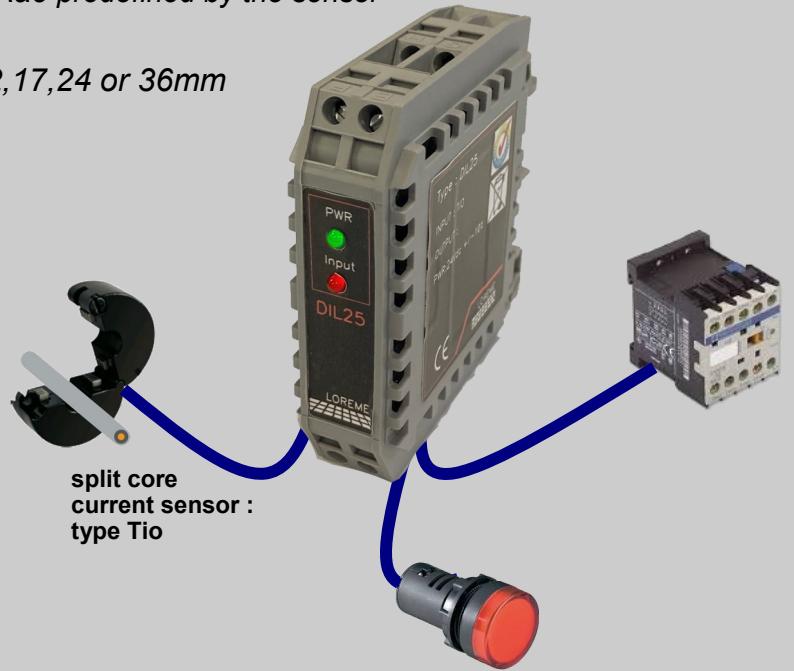


AC current sensing relay predefined threshold current relay

DIL25CA and DIL25CA-A

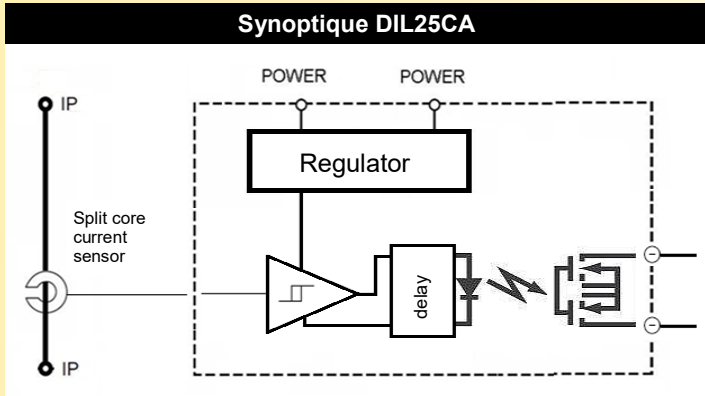
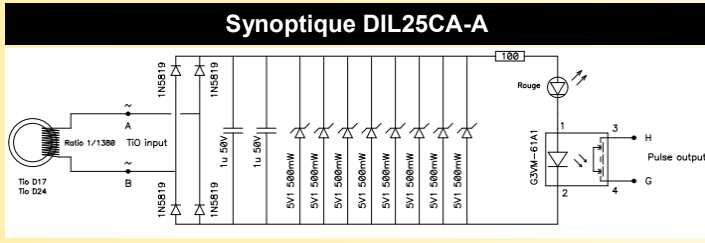


- **Non intrusive current detection**
threshold detection from 0.2Aac to 500Aac predefined by the sensor
- **Remote split core current sensor**
type Tio, pass-through diameter of 8,12,17,24 or 36mm
The threshold is predefined in sensor.
No adjustment is necessary
- **Static relay output**
potential free closing contact
60V, 0.5A switching capacity
temporised from 0.025 to 60 seconds
- **Application**
machine start-up detection,
Overcurrent detection, workbench
- **DIL25CA : 24Vdc power supply**
- **DIL25CA-A : Self-powered**
- **DIN rail mounting**



split core current sensor : type Tio

The DIL25CA is a threshold relay alternating current. It allows to economically solve the detection of starting up or overcurrent of equipment. It's split core current sensor can be implemented in an existing installation without modification. The sensor define the current threshold.
The static relay output can drive a lamp indicator, a relay or a PLC input.



Associated current sensor: Tio d8 mA
http://www.loreme.fr/fichtech/Tio_eng.pdf



Description :

- Current input on remote split core current sensor. Type: Tio
- Threshold detection defined by the sensor (marking on sensor)
- 60V, 0.5A not polarized static relay output
- Output activated if primary current detected
- Detection delay < 20 ms (primary current presence)
- Release delay from 0.025s to 60s (0.1 second by default) in primary current absence

Characteristics :

- long term repeatability : better than 0.5 % / year.
- Operating temperature : up to 65°C
- Resistant to shocks and vibrations.

Feature :

- Green LED indicator for main supply (only DIL25CA)
- Red LED indicator for threshold detection
- symmetrical DIN rail mounting according to EN50022
- Wiring on screw terminals (wire: 2.5 mm²)
- Isolation : power supply / relay
- Protection rating : IP 20 + conformal coating

Version and order code:

[Request a quote](#)

- DIL25CA-T :** - Current detection relay (threshold define by sensor)
- T: release delay. Adjusted in factory (0.025s by default. Up to 1 minute)
- DIL25CA-A:** - Self-powered, current detection relay (threshold define by sensor)

- Tios d8-A :** 8 mm hole voltage output split core CT (30A threshold max)
- Tios d12-A :** 12 mm hole voltage output split core CT (90A threshold max)
- Tios d17-A :** 17 mm hole voltage output split core CT (160A threshold max)
- Tios d24-A :** 24 mm hole voltage output split core CT (250A threshold max)
- Tios d36-A :** 34 mm hole voltage output split core CT (500A threshold max)

-A : Current threshold to define (from 0.2Aac to 500Aac)

INPUT

current transformer sensor (Tio type), threshold: 0.2Aac to 500Aac.
Internal protection against peak current with transient voltage suppressor diode

Overcurrent max. 2x In of selected CT sensor

OUTPUT

Static output with MOSFET transistor (isolated)
Switching capacity : 60Vac-dc, 500mAac-dc
Standard activation delay : <20ms
Standard release delay : 100ms
25ms to 60s on request

POWER SUPPLY

DIL25CA : 12Vdc ... 35Vdc, consumption < 10mA
DIL25CA-A : self-powered with signal of current sensor

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 / relay) 1500 Vac continuous

MTBF (MIL HDBK 217F) > 4 000 000 Hrs @ 25°C
Life time > 300 000 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 DIL25CA and DIL25CA-A

