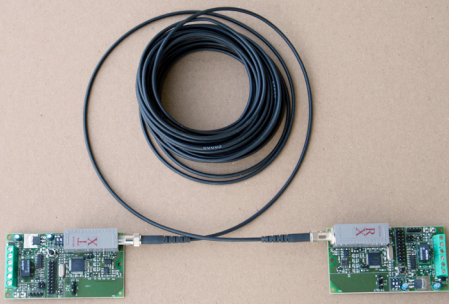


# COPPERSTOP

FIBRE OPTIC SENSOR  
Burglar alarm for copper cables

Thanks to the management software and the sensor cable in DCT fibre optic, COPPERSTOP guarantees the protection of installed copper cables.



## Key strengths:

- Complete protection of cable ducts and shafts
- Burglar alarm signal
- Sure alarm signal
- Advanced anti-tampering signal
- Theft deterrent
- Confuses thieves
- Absence of false alarm signals thanks to the fibre optic sensor
- Immune to EMI and RFI interference
- Installation close to high tension energy conductors, it does not cause technical problems or requires special permissions
- Not affected from vibrations and adverse weather conditions
- 100% reliable alarm signal
- Low cost solution

COPPERSTOP uses a MICMAR/2 micro-processor card whose software assesses the changes in the optic signal due to the mechanical manumission of the DCT sensor cable.

The shift in the light intensity signals the opening of shafts (irrespective of what material the cover is made from), the cutting of copper cables, the removal of copper cables in cable ducts. COPPERSTOP can also be used as a protection for aerial cables.

## MICMAR/2 micro-processor card

The card can be connected to alarm stations of any kind and brand via free contact.

Automatic setting of the optic signal.

DCT sensor cable that can be connected to the card: ranging from 5 to 1,200m.

No restrictions in the number of MICMAR/2 cards that can be fitted

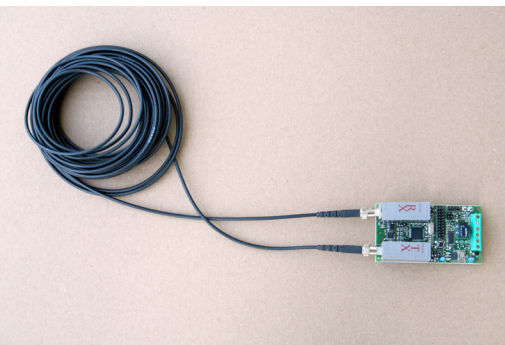
## DCT fibre optic sensor cable

DCT sensor cable has a plastic covering that makes it suitable for the installation on cable ducts and outdoors. Micmar technicians are at your complete disposal and able to recommend the most suitable cable configuration according to the installations that need protection.

The cable is supplied:

In reels that do not have a tube heading (in order to allow for the utmost freedom in connections)

In coils that have a tube heading and cut according to the need.



### DCT cable technical specifications:

Cable covering material: PVC, Kevlar, steel

Sensor: 850nm fiber optic

Sensor average life span: 20 years

Working temperature: - 40°C +85°C

### MICMAR/2 micro-processor card technical specifications:

Probability of detention (POD): 99%

False alarm (NAR): less than 1%

Annual calibration: not needed

Working temperature: - 5°C +70°C.

Min/max tension: 10 - 14 Vdc

Reading capacity: 1,000/sec

Size: 50 x 90 mm

Relay contact: 1 Amp. at 12 Vdc resistive

Relay type: NO from 12 Vdc

Setting: automatic at start up and following an alarm signal

**PATENT PENDING**