DAX

Amperometric fault detector

Amongst the various concerns facing distributors of electric power, to provide continuous supply and decrease time needed for interventions on the network are both predominant conditions.

As specialists in MV/LV networks, Schneider Electric provides solutions for the monitoring and detection of faults on both underground and overhead-underground networks.

The DAX, an amperometric fault detector is intended to detect and announce, by the use of an external indicator, the passage of a fault current (zero-sequence and between phases) on underground MV network grids

DIGITAL DETECTOR

Thanks to the use of a microcontroller, the DAX offers, basically, a multitude of tunings (current thresholds and temporization) as well as complementary functions intended for the operator:

- Visual test
- Metering of both slow and fast faults

The settings are easily made by pushbuttons. Posting on an LCD screen and the visualization of the defects on LEDs, offer both a simple and accurate reading of tuning and operations.

INCREASED AUTONOMY

The DAX uses a lithium cell-like main supply (autonomous version) or aid (low voltage version). The battery life is more than 8 years and 700 hours signalling. The replacement of the large battey is planned every 5 years (with 250 hours signalling).

SIMPLICITY OF INSTALLATION

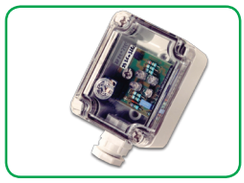
The distance between centres for fixing the DAX is maintained for both installation or fast and easy replacement. Its front panel is removable without any need for specific tools.
It provides access to connections for the apparatus, core, indicators, relays and power supply.

CUSTOMER BENEFITS

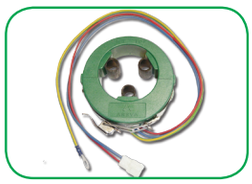
- Easy exploitation
- User-friendliness
- Simple installation

Technical Characteristics	
Earth fault thresholds	Setting between 5 to 180 amps - 16 values
Phase thresholds	Setting between 225 to 700 amps - 4 values
Taking into account time	Setting between 60 to 360 ms - 5 values
Reset modes	A detected fault can be reset to zero by one of the following : • by a push button • at the end of the selected time delay • on return of the ac voltage (low voltage DAX) • by the presence of current in the cores • by external dry contact input
Signalling by external light	Duration: setting from 1 to 96 hours
Filtering of call inrush current	Adjustements: 0 ms (deactivated) or 3 s (activated)
Signalling by dry contacts	Inverted contact open/close power for 10 000 operations: 5 / 8 amps at 230 Vac, 0,6 amps/3,5 amps at 135 Vdc.
Physical characteristics	Dimensions : 280 X 200 X 67 mm; Spacing of wall mountings : h 215 X w 175 mm
Test mode	External light
2 meters	Fault current detected Fault current undetected (> 40 ms and < setting of the taking to account time)

Anti-vandal light
Ref: DAX0002000



Square light
Ref: DAX0001000



Moulded core CTOS 45
Ref: DAX0000100

FCT - LCT Bundle
Ref: DAX0000040

D A X

	DAX products
S	Standard amperometric detector

	Supply
1	Low voltage: 230 Vac + lithium cell 3,6 V 2,70 Ah
2	Lithium cell 3,6 18,5 Ah

	Language
1	French
2	English
3	Spanish

	Light
0	None
1	Square light
2	Anti-vandal light

	Input current
0	None
1	Moulded triple cores

	Current Connection
0	None
1	5 m
2	10 m
3	15 m
4	50 cm bundle
5	2 m
8	7 m

	Option
0	None

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