SCANDINAVIAN ELECTRIC AS

EXCELLENCE IN ELECTRIC

DINFLEX/1A strømtrafoer

El.nr.	Type	Ampère	Lysåpning
8002261	DINFLEX-AM54	10-10000	Ø170 mm
8002260	DINFLEX-AM110	10-10000	Ø350 mm

- ✓ Leveres i sett bestående av 3 strømtrafoer, 3 stk. måleomformere for DIN-montasje, og 24V spenningsforsyning for DIN- montasje
- ✓ Strømtrafoene kan benyttes mot nettanalysator CVM-MINI og CVM-C10
- ✓ Ideell for oppgradering til NSO i nettstasjoner/tavler.
- ✓ Reduserer frakoplingstiden og eventuelle KILE-kostnader
- ✓ Måleområder som kan velges på måleomformer:
  - 10-100/1A
  - 100-1000/1A
  - 1000-10000/1A
- ✓ Kan leveres med lysåpning Ø170mm og Ø350mm.
- ✓ Nøyaktighetsklasse +/-1%
- ✓ Strømtrafoene leveres med 2 meter til-ledning
- ✓ Dobbelisolert
- ✓ IP54

Se mer teknisk info på neste sider.

PRODUCT

*The **DINFLEX /1A** allow to connect a conventional electrical network analyzer to a flex clamp with built in electronic (series TLE). The system is composed of three main parts: flex clamp, Dinflex /1A and electrical network analyzer. The Dinflex /1A provides power to the clamps and allow simultaneous range scaling of the same, finally connects with its output current signals measured by the clamps (/1A) to the analyzer.*

The non-intrusive flexible current sensor provides the ability to measure alternating current in any installation with a full rejection of DC component, very low consumption, no saturation problem, very low temperature dependence, very good linearity.

Thanks to the flexibilty of these current transducers, one or diverse conductors can be embraced, regardless their shape (insulated cables, tubes, etc.), To execute current measuring actions.

Measurement uncertainly assumes centralized primary conductor at optimun position, no external electric or magnetic field, and within operating temperature range

PHYSICAL AND ENVIRONMENT FEATURES DINFLEX /1A	
Rango de Temperatura:	-25 °C to 70 °C
Temperatura de Almacenamiento:	-40 °C to 85 °C
Protección IP:	IP20
Dimensiones (LxWxH):	90x67x104 (mm)
Temperature Range:	-25 °C to 70 °C
Storage Temperature:	-40 °C to 85 °C
Protection IP:	IP20
Size (LxWxH):	90x67x104 (mm)

PHYSICAL AND ENVIRONMENT FEATURES CLAMPS	S54
Material Sonda /Probe Material	Autoextinguible /Self-extinguishable UNE 21031 90°C
Material de Acoples /Couplings Material	PA V-0
Diámetro Cable Sonda /Probe Cable Diameter	14mm
Longitud Cable Salida /Output Cable lenght	2m
Rango Temperatura /Temperature Range	-20 °C a 85 °C
Temperatura de Almacenamiento /Storage Temperature	-40 °C a 85 °C
Humedad Relativa /Relative Humidity	15% to 85% (sin condensación) /without condensing)
Protección IP /Protection IP	IP54

SAFETY PRECAUTIONS

*The **DINFLEX /1A** has been designed and tested to fulfil the safety standard IEC 61010-1:2001/EN 61010-1 61010-2-32:2002*

*Prior to use the **DINFLEX /1A** for the first time, read the following carefully:*

1. *The **DINFLEX /1A** must be only used by qualified personal.*
2. *Use of the probe on uninsulated conductors is limited to 600VACrms or DC to frequencies below 1KHz.*
3. *Do not expose the **DINFLEX /1A** to aggressive or explosive environment.*
4. *Do not use the **DINFLEX /1A** if there any reason to think that its no operating properly or that it is faulty.*
5. *For measuring in uninsolated conductor use the appropriate and necessary personal protection equipment.*

EXTERNAL CONNECTIONS

1. *24VDC power supplied.*
2. *You can connect a flex clamp wich consist of 4 wires each: 5V DC power supply (White), GND (Gray), range selector (Yellow) and the output signal (Green).*
3. *The device has one output to current signals measured by the sensor and its delivery to the analyzer (/1A).*

USING THE CURRENT SENSOR

1. *Before using the current flex sensor ensure that the conditions are the appropiates for working, and that the protection equipment is the adequate.*
2. *Ensure that the wires connection are properly configured.*
3. *Disengage the snap connector and surround the conductor to measure.*
4. *Close the snap connector ensuring their anchorage.*
5. *Put the conductor centred within the sensor.*

MAINTENANCE:

The current flex sensor do not require a special maintenance.

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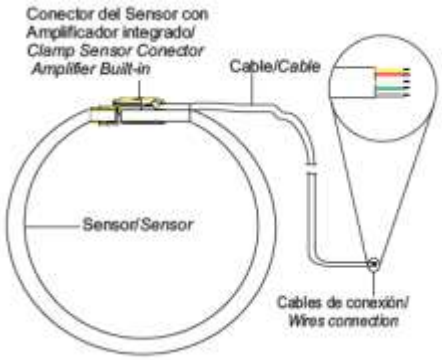


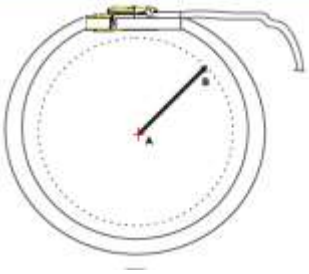
Conector/*Connector*
SELECTOR DE ESCALA /*RANGE SLECTOR*
OUT
GND
VCC

Cables de conexion /Wires connection		
RS	Amarillo /*Yellow*	Selector de escala /Range selector
Output	Verde /*Green*	Output(1A AC f.s)
⏚	Gris /*Gray*	GND
+	Blanco /*White*	Vcc (5V DC)

Error posición/*Position error*		
Posición/Position	**Error S14/S25**	**Error S54**
A	+/- 1%	+/- 1%
B	+/- 3%	+/- 3%

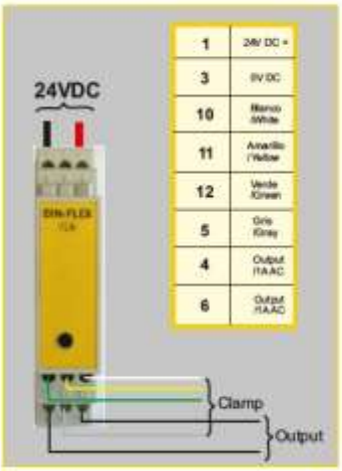
La incertidumbre en la medida se considera con el sensor en la posición óptima sin campos eléctricos ni magnéticos externos y dentro del rango de temperatura de trabajo.

Measurement uncertainty assumes centralized primary conductor at optimum position, no external electrical or magnetic field, and within operating temperature range.



Características técnicas sensor / *Technical features flex clamps*

Características eléctricas / *Electrical Features*	
Voltaje típico de salida/*Typical Voltage Output* E_{outRMS}	**1.0V/1A f.s.**
Rango de Frecuencia/*Frequency Range*	**20Hz - 10kHz**
Voltaje de trabajo/*Working Voltage*	**600VAC$_{RMS}$**
Rango1 de corriente en primario/*Range1 primary current*	**100A 1kA 10kA**
Linealidad/*Linearity* (10% to 100%)	**+/- 0.5%**
Desfase maximo @50Hz/*Max. phase shift @50Hz.*	**+/- 1°**
Sensibilidad de posición /*Position sensibility*	**+/- 3%**
Campos externos/*External Field*	**+/- 2% (300A D/4)**
Precisión/*Accuracy*	**+/- 1% @ 50Hz**
(Conductor centrado/*Centered conductor***)**	
Seguridad Eléctrica / *Electrical Safety*	
Aislamiento/*Isolation*	**Doble Aislamiento/Double Isolation**
Clase de protección/*Protection class*	**II IEC/EN 61010-1:2001**
Categoría de sobrevoltaje/*Overvoltage Category*	**600V CAT III / 300V CAT IV**
Rigidez Dielectrica/*Dielectric strengh*	**IEC/EN 61010-2-32:2002, 5,4 kV 50Hz**



Características técnicas Dinflex /1A *Technical features Dinflex /1A*

Características eléctricas Dinflex /1A /*Electrical Features Dinflex /1A*	
Rango de tensión/*Voltage Range*	**18 to 24 V DC**
Rango de Frecuencia/*Frequency Range*	**50-60 Hz**
Consumo del equipo/*Consumption of equipment*	**300mA (DC)**
Clase de protección/*Protection class*	**Clase II - Aislamiento reforzado**

Características metrologicas / *Measurements parameters*

Rango Nominal / *Nominal range* (A)	**100**	**1000**	**10000**
Relación salida entrada / *Output input ratio* (mA/A)	**10.0**	**1.0**	**0.1**
Rango de utilización / *Operating use* (A)	**1-100**	**10-1000**	**500-10000**
Rango de medida especificado / Specified measurement range	**10-100**	**100-1000**	**1000-10000**
Factor pico máximo a In / *Crest factor at In*		**1.1**	
Ruido residual a I:0 / *Residual noise* (Arms)		**0.25**	
Desfase típico / *Typical phase shift*	**1°**	**1°**	**1.5°**
Indicación de scala / Range Indication	🔵	🔴	🔵🔴

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