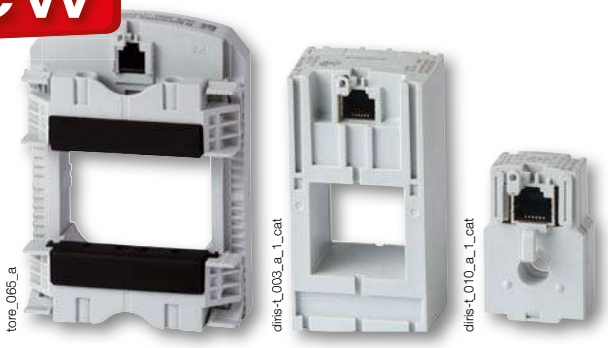


TE sensors

Solid current sensors

used with DIRIS Digiware and DIRIS B-30

new



***TE** solid sensors*

Function

TE smart **current sensors** measure the load currents of an electrical system and send the data to meters and measurement hubs via an RJ12 plug-and-play output. Thanks to a wide measurement range, TE current sensors cover the full current range of 5 to 2000 A, with 7 references. TE solid current sensors can be connected to DIRIS Digiware and DIRIS B-30 via a rapid RJ12 connection.

Numerous accessories are available to aid the installation of sensors in any type of cabinet.

Advantages

Plug & Play

- A rapid RJ12 connection makes wiring easy and reliable and prevents wiring errors. This also allows automatic detection of the sensor type and size/transformation ratio.
- The sensors can be installed in both directions.

Accuracy as per standard IEC 61557-12

- Class 0.5 for the global measuring chain (measurement hub + TE current sensors) from 2 to 120% of the nominal current In.

Installation

- The TE solid sensor range is specially designed for new installations, and has the same pitch as the most common protective devices.

The solution for

- Industry
- Building
- Infrastructure
- Data center



Strong points

- Plug & Play
- Accuracy as per standard IEC 61557-12
- Installation

Conformity to standards

- IEC 61557-12
- ISO 14025
- UL

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Mounting

Linear assembly with the protective devices
TE-25 / TE-35 / TE-45 / TE-55 / TE-90



Staggered assembly
TE-18 / TE-35 / TE-45 / TE-55



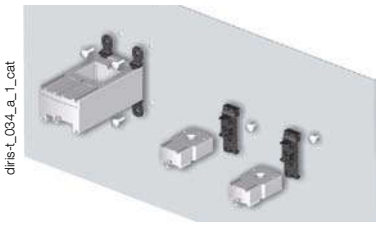
Cable mounting



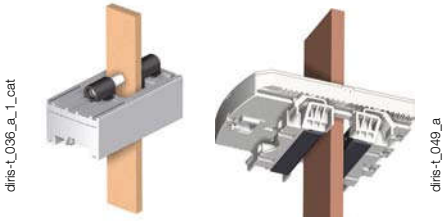
DIN rail mounted



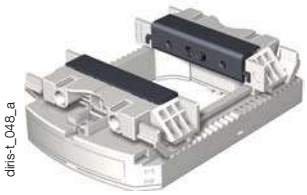
Back-plate mounting



Bar mounting

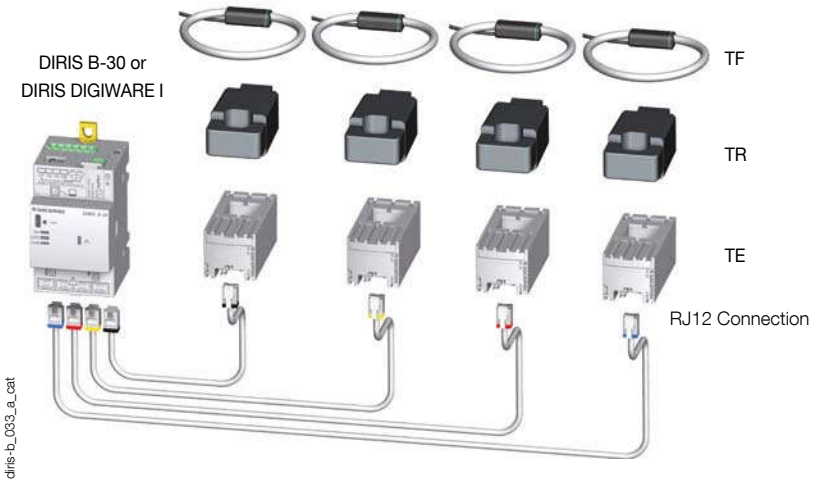


TE-90 clamps



Connections

TE / TR / TF current sensors



TE sensors

Solid current sensors

used with DIRIS Digiware and DIRIS B-30

Mounting accessories

Mounting accessories delivered with TE sensors:

Switch mounting		TE-18	TE-25	TE-35 TE-45 TE-55	TE-90
	DIN rail and back-plate	1 pc			2 pcs
	DIN rail		2 pcs	2 pcs	
	Back-plate		4 pcs	4 pcs	6 pcs
	Busbar			2 pcs	

diris-t_042_a - 043_a - 044_a - 045_a

Compatible accessories

Adapter for CT with 5A secondary



diris-t_041_a_1_cat

- With this adapter you can use a current transformer with a 5 A output on the DIRIS Digiware and DIRIS B-30.
  For use with standard 5 A sensors for measuring applications of > 2000 A. The dimensions are the same as the TE-18.

Coupling link

- Associated with the TE range, this accessory is for inter-connecting the sensors when linear or staggered mounted.



diris-t_020_a_1_cat



Sealable cover

- Using a sealable cover guarantees the immunity of the sensor connection on TE/TR/TF current sensors.

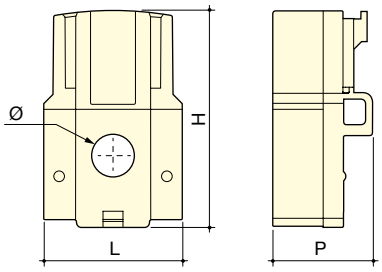


diris-t_046_a_1_cat

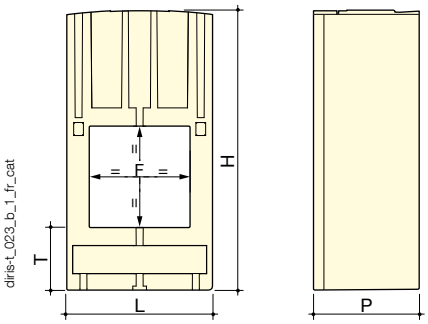
Dimensions (mm)

TE - Solid current sensors

TE-18

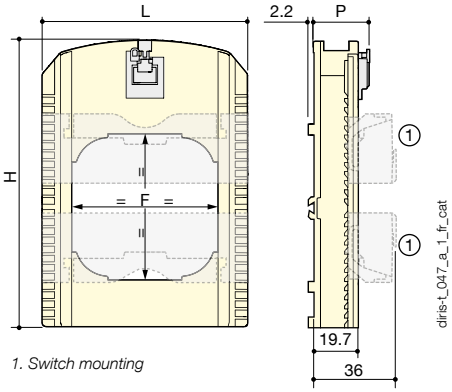


TE-25 / TE-35 / TE-45 / TE-55



diris-t_023_b_1_fr_cat

TE-90



1. Switch mounting

diris-t_047_a_1_fr_cat

Model	Nominal current range (A)	Actual coverage range (A)	Pitch (mm)	H x W x D (mm)	F (mm)	T (mm)
TE-18	5 … 20 / 25 ... 63	0.1 … 24 / 0.5 … 75	18	45 x 28 x 20	8.6	-
TE-25	40 … 160	0.8 … 192	25	65 x 25 x 32.5	13.5 x 13.5	17.5
TE-35	63 … 250	1.26 … 300	35	71 x 35 x 32.5	21 x 21	17.5
TE-45	160 … 630	3.2 … 756	45	86 x 45 x 32.5	31 x 31	19.5
TE-55	400 … 1000	8 … 1200	55	100 x 55 x 32.5	41 x 41	21.5
TE-90	600 … 2000	12 … 2400	90	126 x 90 x 24.6	64 x 64	-

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Specifications

TE - Solid current sensors							
Model	**TE-18**	**TE-18**	**TE-25**	**TE-35**	**TE-45**	**TE-55**	**TE-90**
Nominal current range I_n (A)	5 … 20	25 … 63	40 … 160	63 … 250	160 … 630	400 … 1000	600 … 2000
Actual coverage range (A)	0.1 … 24	0.5 … 75	0.8 … 192	1.26 … 300	3.2 … 756	8 … 1200	12 … 2400
Max. current (A)	24	75.6	192	300	756	1200	2400
Weight (g)	24	24	69	89	140	187	163
Max. voltage (phase/neutral)	300 V						
Rated withstand voltage	3 kV						
Frequency	50/60 Hz						
Intermittent overload	10 x I_n over 1 sec						
Measurement category	CAT III						
Protection degree	IP30 / IK06						
Operating temperature	-10 … +70°C						
Storage temperature	-25 … +85°C						
Relative humidity	95% RH non-condensing						
Altitude	< 2000 m						
Connection	Socomec RJ12 cable						

References

Model	Nominal current range (A)	Actual coverage range (A)	Pitch (mm)	Reference
TE-18	5 … 20	0.1 … 24	18	4829 **0500**
TE-18	25 … 63	0.5 … 75	18	4829 **0501**
TE-25	40 … 160	0.8 … 192	25	4829 **0502**
TE-35	63 … 250	1.26 … 300	35	4829 **0503**
TE-45	160 … 630	3.2 … 756	45	4829 **0504**
TE-55	400 … 1000	8 … 1200	55	4829 **0505**
TE-90	600 … 2000	12 … 2400	90	4829 **0506**

Accessories	Reference
Coupling link (20 linear assembly parts and 10 for staggered assembly)	4829 **0598**
CT/5A adapter (measurements of >2000 A) (max primary current 10000 A/5/A)	4829 **0599**
Sealable caps (20 pieces)	4829 **0600**

	Cable length (m)								
RJ12 connection cables	**0.1**	**0.2**	**0.3**	**0.5**	**1**	**2**	**5**	**10**	**50 m reel + 100 connectors**
Number of cables	**Reference**	**Reference**	**Reference**	**Reference**	**Reference**	**Reference**	**Reference**	**Reference**	**Reference**
1	-	-	-	-	-	-	4829 **0602**	4829 **0603**	4829 **0601**
3	4829 **0580**	4829 **0581**	4829 **0582**	4829 **0595**	4829 **0583**	4829 **0584**	-	-	-
4	-	-	-	4829 **0596**	4829 **0588**	4829 **0589**	-	-	-
6	4829 **0590**	4829 **0591**	4829 **0592**	4829 **0597**	4829 **0593**	4829 **0594**	-	-	-