

TR/iTR *sensors*

Split-core AC current sensors

used with DIRIS Digiware, DIRIS A-40 and DIRIS B



TR split-core sensor

The solution for

- > Data centres
- > Healthcare
- > Energy
- > Buildings



Strong points

- > Smart sensors
- > Accurate
- > VirtualMonitor technology
- > AutoCorrect technology

Integrated technologies⁽¹⁾



⁽¹⁾ AutoCorrect and VirtualMonitor are only available with iTR sensors.

For further information, please visit our website www.socomec.com

Conformity to standards

- > IEC 61557-12



- > ISO 14025



- > UL



Create your project

- > Find the best DIRIS Digiware configuration:
www.meter-selector.com

METER SELECTOR
DIGITAL TOOL AVAILABLE

Function

The **split-core current sensors** in the **TR** and **iTR** ranges enable the current on an electrical installation to be measured. Used with a PMD from the DIRIS Digiware, DIRIS A-40, DIRIS B-10 or B-30 range, they make it possible to perform accurate measurements between 25 and 600 A, and provide access to an overall accuracy class. The RJ12 connection system makes it easier to connect it all up, and the integrated intelligence prevents any configuration errors. The sensors in the iTR range revolutionise the world of measurement and provide access to VirtualMonitor equipment monitoring technologies and to AutoCorrect automatic configuration.

Advantages of the TR and iTR ranges

Smart sensors

- Sensors with an extended operational range.
- Automatic detection of rating.
- Secure disconnection on load.
- Quick connection via RJ12 and identification of cable by colour code.

Accurate

Measurement accuracy of Class 0.5 according to standard IEC 61557-12 guaranteed for the overall measurement chain from 2 to 120% of nominal current.

Exclusive advantages of the iTR range

VirtualMonitor technology

VirtualMonitor provides monitoring of protection devices:

- Across the entire electrical installation.
- Remotely and in real time.
- Without additional hardware or wiring.

AutoCorrect technology

AutoCorrect guarantees that your measurement system is working correctly:

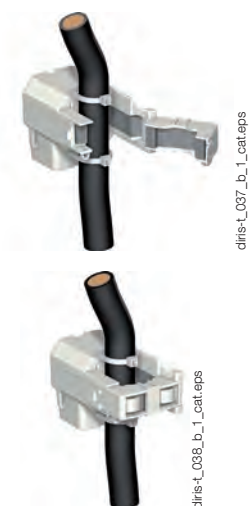
- Automatic wiring control (voltage/current/phase association).
- Correction of errors.

General characteristics

- - Range 25 to 600 A.
- Used with DIRIS Digiware, DIRIS A-40 and DIRIS B.
- PreciSense technology: Overall accuracy class in accordance with the IEC 61557-12 standard.
- Easy installation and configuration.

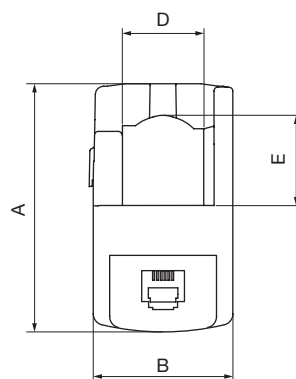
Mounting

Cable mounting

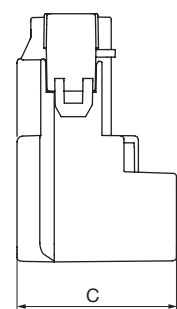
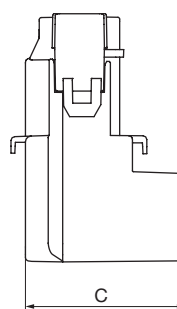


Dimensions

TR-10 / TR-14 / TR-21 / TR-32



iTR/TR-10



Model	Nominal current range (A)	Real range covered (A)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Ø (mm)
TR/iTR-10	25 ... 63	0.5 ... 75.6	44	26	28	-	-	10
TR/iTR-14	40 ... 160	0.8 ... 192	67	29	28	14	15	14
TR/iTR-21	63 ... 250	1.26 ... 300	65	37	43	21	23	21
TR/iTR-32	160 ... 600	3.2 ... 720	86	53	47	32	33	32

Technical characteristics

Model	TR-10	iTR-10	TR-14	iTR-14	TR-21	iTR-21	TR-32	iTR-32
Nominal current range I _n (A)	25 ... 63		40 ... 160		63 ... 250		160 ... 600	
Real range covered (A)	0.5 ... 75.6		0.8 ... 192		1.26 ... 300		3.2 ... 720	
Max. current (A)	75.6		192		300		720	
Weight (g)	74		117		211		311	
Max. voltage (phase/neutral)	300 V							
Rated withstand voltage	3 kV							
Frequency	50/60 Hz							
Intermittent overload	10 x I _n for 1 s							
Measurement category	CAT III							
Overall class used with Diris Digiware/A-40/B-10/B30	class 1	class 0.5	class 1	class 0.5	class 1	class 0.5	class 1	class 0.5
Ingress Protection rating	IP20 / IK07							
Operating temperature	-10 ... +70 °C						-10°...+55 °C	
Storage temperature	-25 ... +85 °C							
Relative humidity	95% RH condensation-free							
Altitude	< 2000 m							
Connection	Socomec RJ12 cable							

References

Model	Nominal current range (A)	Real range covered (A)	Ø (mm)	Reference
TR-10	25 ... 63	0.5 ... 75	10	4829 0555
TR-14	40 ... 160	0.8 ... 192	14	4829 0556
TR-21	63 ... 250	1.26 ... 300	21	4829 0557
TR-32	160 ... 600	3.2 ... 720	32	4829 0558

Model	Nominal current range (A)	Real range covered (A)	Ø (mm)	Reference
iTR-10	25 ... 63	0.5 ... 75	10	4829 0655
iTR-14	40 ... 160	0.8 ... 192	14	4829 0656
iTR-21	63 ... 250	1.26 ... 300	21	4829 0657
iTR-32	160 ... 600	3.2 ... 720	32	4829 0658

RJ12 connection cables	Cable length (m)										
	0.1	0.2	0.3	0.5	1	2	3	5	7	10	50 m reel + 100 connectors
Number of cables	Reference	Reference	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	4829 0606	4829 0607	4829 0608	4829 0609	-
4	-	-	-	4829 0596	4829 0588	4829 0589	-	-	-	-	-
6	4829 0590	4829 0591	4829 0592	4829 0597	4829 0593	4829 0594	-	-	-	-	-