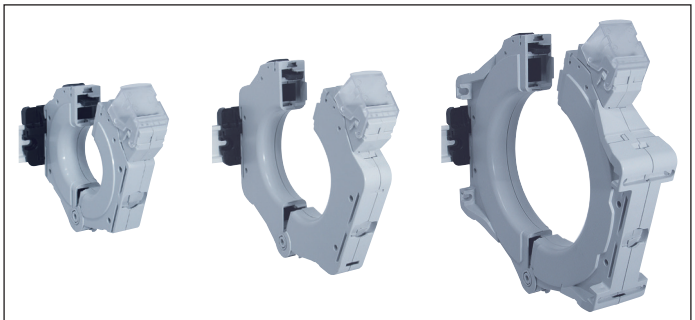
VARIMETER RCM
Split-core Current Transformer
ND 5014

Translation of the original instructions

0278539



ND 5014/050 ND 5014/080 ND 5014/120

Your Advantages
- Easy mounting
- Simple retrofitting in existing plants

Features
- According to IEC 61869-1 and IEC 61869-8
- Measurement according to IEC/EN 62020, for AC and DC systems Type A
- Up to 30 A
- Vertical and horizontal mounting to DIN-rail
- ND 5014/120 also with screw fastening

Product Description

The split-core current transformers ND 5014 from the VARIMETER RCM family are suitable for differential current measurement in conjunction with a DOLD differential current monitor IL 5882, SL 5882 and IP 5882 for AC and pulsating DC current. Opening the CT makes it easy to install them to the current leading conductors. They are especially suitable for retrofit, as the wires do not need to be disconnected.

The split-core current transformers are available in 3 sizes with through hole diameters of 49, 79 and 119 mm.
For differential current measurement all current conducting wires run through the CT with exception of the PE wire.
Normally we have rather low currents that are monitored between 10 mA and 30 A.

Application

Measuring current transformers for monitoring differential currents in combination with DOLD Residual Current Monitors IL 5882, SL 5882 and IP 5882.

Note

Info

The split-core current transformer is only designed for operation together with the residual current monitors IL 5882 and SL 5882 from E. Dold & Söhne GmbH & Co. KG.

Connection Terminals

Terminal designation	Signal designation
i, i, k, k	Connecting the current transformer to the Residual Current Monitor IL 5882, SL 5882 or IP 5882 (i and k are double present)

Technical Data

Ambient temperature:	- 40 ... + 80 °C / 233 K ... 353 K
Inflammability class:	V0 according to UL94

Insulation coordination according to IEC 61869-1

Highest rated operating voltage U_m:	AC 720 V
Rated impulse voltage:	3 kV
Rated impuls voltage / pollution degree:	8 kV / 3
Rated transformation ratio:	500 / 1
Rated primary current:	10 A
Nominal load:	50 mVA
Accuracy:	Class 3

Wire connection

Wire cross section:	0.2 ... 2.5 mm² rigid / 0.2 ... 2.5 mm² flexible / AWG 24 ... 12
Stripping length:	6 mm
Wire fixing:	Terminals with spring connection and direct (Push in) technology
Actuating force:	40 N max.

Mounting

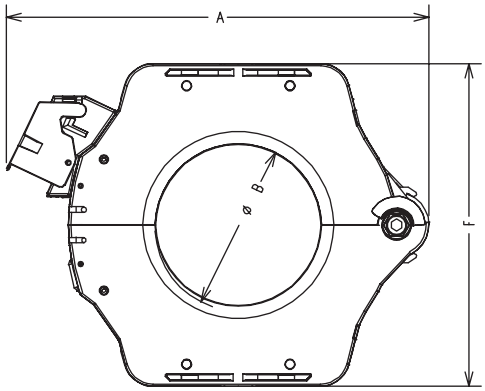
DIN rail mounting:	Vertical and horizontal mounting on enclosed socket
ND 5014/120:	Screw fastening also possible

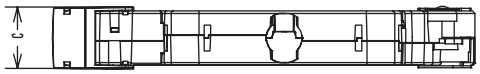
Order references

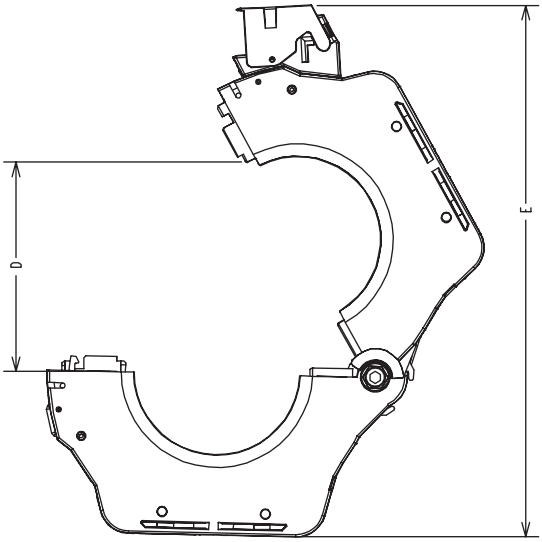
ND 5014/050	
Article number:	0068614
• Diameter:	49 mm
ND 5014/080	
Article number:	0068613
• Diameter:	79 mm
ND 5014/120	
Article number:	0068565
• Diameter:	119 mm

All technical data in this list relate to the state at the moment of edition. We reserve the right for technical improvements and changes at any time.

Dimensions







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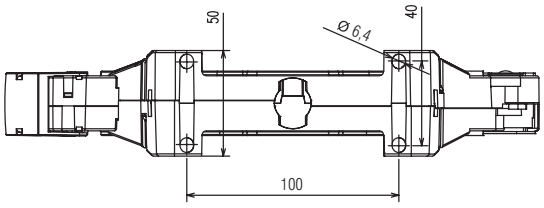


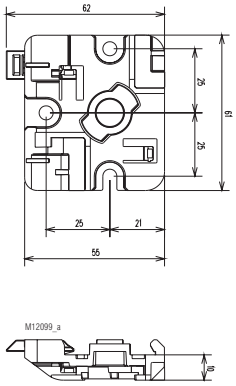
ND 5014/050	A	B	C	D	E	F
Dimension/mm	160	49	30	77	200	116
Weight / g	Approx. 380					

ND 5014/080	A	B	C	D	E	F
Dimension/mm	204	79	30	108	260	156
Weight / g	Approx. 850					

ND 5014/120	A	B	C	D	E	F
Dimension/mm	252	119	30	149	328	204
Weight / g	Approx. 1500					

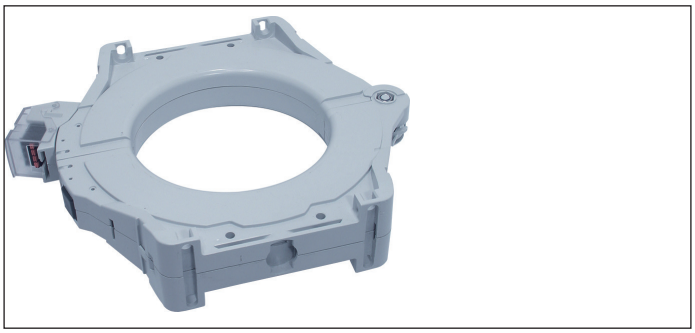
*) Drill tolerance for screw mounting: ± 0.5 mm

Dimensions Socket



Socket included in the delivery !

Mounting - Srew fixing at ND 5014/120

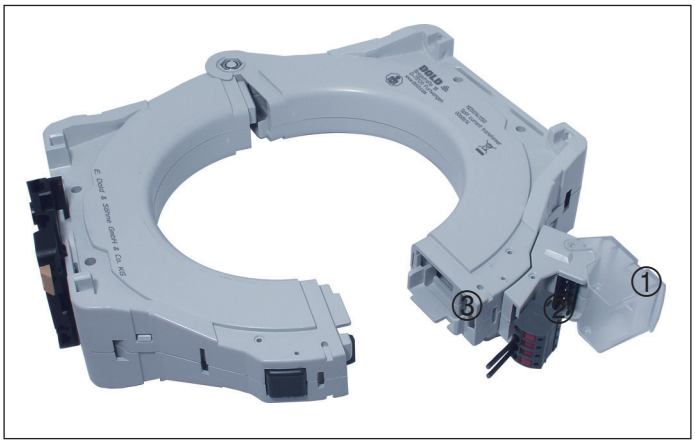


Screws are not included in the delivery !

Mounting instructions for srew fixing

To high forces applied during installation can damage the transformer on the mounting foots.
The mounting foots are only designed to fix the transformer. Forces that are applied to the CT by the conductors can only be supported within limitations. When installing the CT, the conductors should be lead free through the transformer and should later stay in that position.

Wiring Information



① The hinged cover protects the push-in terminal block and avoids unintended disconnection of the wiring

② The push-in terminal block provides easy mounting

③ Stripping length: 10 mm
Connecting capacity: 0.2 .... 2.5 mm²