Regowski Coils

Description

STP with an integrator that outputs a three-way Rochecoil signal through an RJ45 port or an eight-core

Highlights

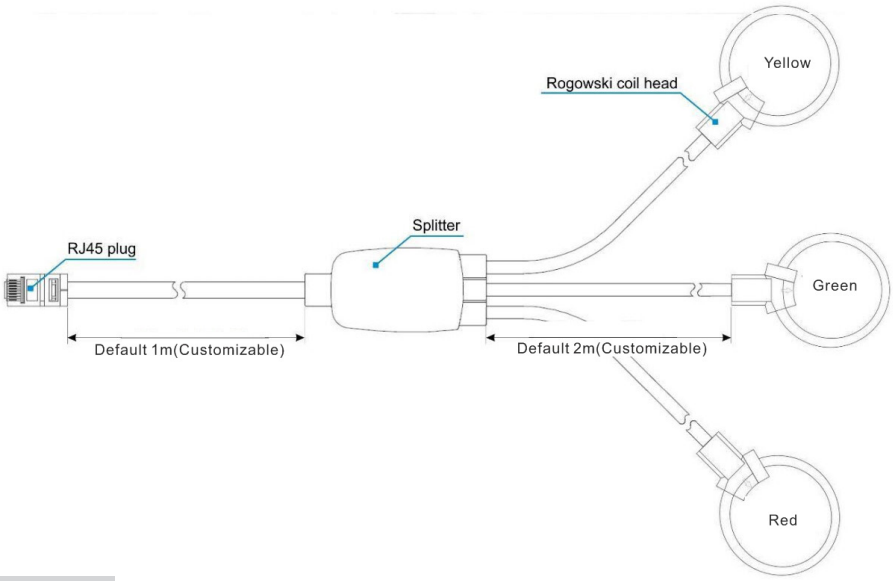
- Portable mini easy to install
- High linearity from 1A to 100 kA
- Wide dynamic range
- Very usefull with large size or awkward shaped conductors or in places with limited access
- No danger from open-circuited secondary
- Not damaged by large overloads
- Non-intrusive,no power draw from the mai
- Measurement uniformity at any position of the conductor inside the coil
- Excellent degreen of rejection to the external current conductor

Specifications

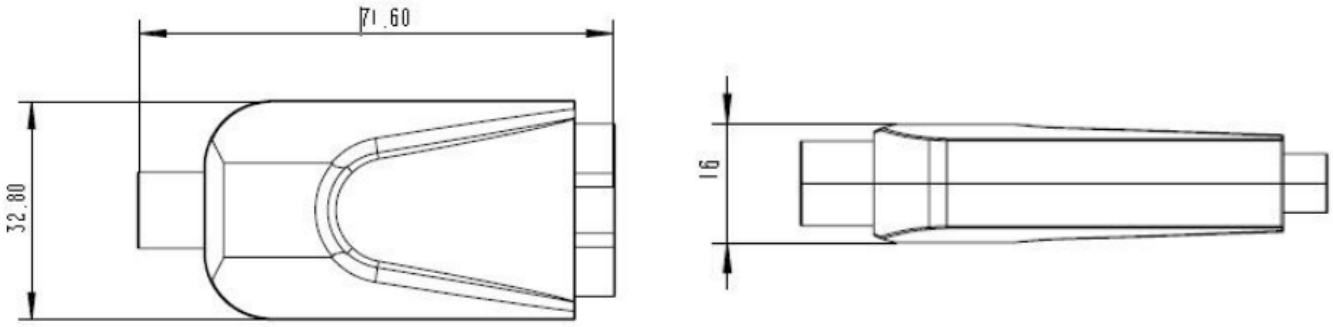
Coil length		200mm
Window size		50mm
Reference Rated Current		600A
Ratio	Calibrated(default)	85mV/kA@50Hz/100mV/kA@50Hz
	Uncalibrated	105mV/kA@50Hz
Read Accuracy		Calibrated<0.5%(central position,25°C)
		Uncalibrated<0.5%tolerance(central position,25°C)
Maximum current measurable		100kA
Coil Resistance		from 100-250Ω
Coil Section		8mm
Lead lenght		2meter
Temperature		Uncalibrated 200ppm/C
		Calibrated 300ppm/C
Position Error		±1% maximum
Output on 0 A(zero drift)		≤0.1mA
Phase error		≤0.5°
Linearity		±0.2% of reading
Bandwidth		1Hz to 100kHz (-3dB)
Operating Temperature		-30°C to 80°C
Storage Temperature		-40°C to 90°C

Other requirements , please contact us to OEM.

Wiring Diagram

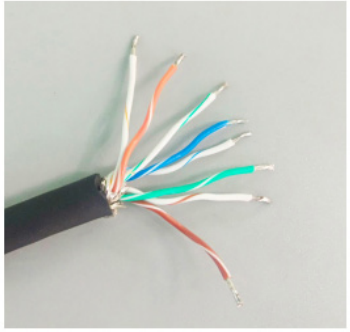


Dimensions

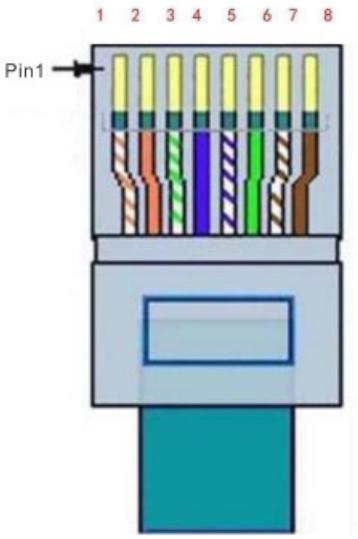


Definition of RJ45 Joint

RJ45Plug



Eight Core Output



With Integratr

Pin1(Orange and White)	Output1(-)
Pin2(Orange)	Output1(+)
Pin3(Green and White)	G
Pin4(Blue)	Output2(-)
Pin5(Blue and White)	Output2(+)
Pin6(Green)	V+
Pin7(Brown and White)	Output3(-)
Pin8(Brown)	Output3(+)

Safety Instructions

The coil can be safe only if it is used within the proper parameter range. Please read the following instructions carefully

Warning!

Ignoring this warning can result in serious danger!
The installation and operation of Rogowski coil can only be carried out by professionals who have received relevant training and obtained qualification certificate, and the installation or operation process shall comply with the corresponding countries
Safety regulations and relevant manufacturer's operating instructions are used in electrical or electronic equipment meeting the parameter standards and safety requirements.

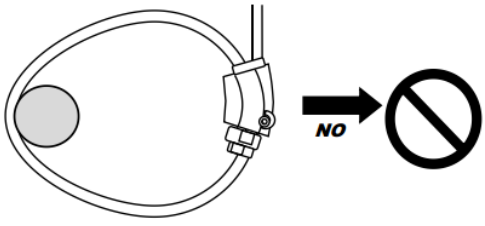
Electric shock warning!

When operating the Rogowski coil, some parts of the module may carry dangerous voltage. The user shall ensure that all necessary measures are taken to prevent electric shock.
The Rogowski coil is a built-in device that contains conductive parts that cannot be touched after installation. A protective cover or additional insulation barrier may be required.
When the equipment fails and needs to be repaired, the maintenance shall be carried out after the main power supply is disconnected unless it is confirmed that there is no dangerous live module in or near the power system Etc
The safe and trouble free operation of the coil can be guaranteed only under the condition of correct transportation, storage, installation, careful operation and maintenance

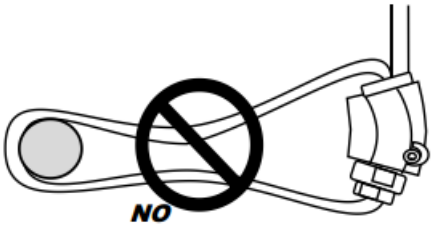
Notices!

Do not damage the coil. The accuracy and service life of the equipment will be greatly reduced by twisting, puncturing, over extruding and bending

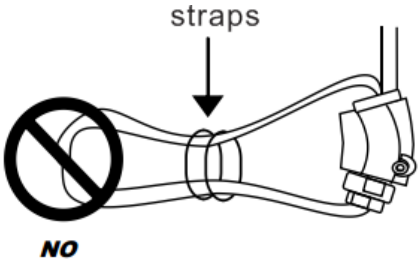
Please do not pull by force



Please do not bend by force



Please do not pack in a bent



Coil

Coil Model	Coildiameter(mm)	Outputratioandtolerance	Signalcable-length
Code:Y-FCT	Code:200(Typicalrated500A) Code:350(Typicalrated1500A) Code:510(Typicalrated3kA) Code:800(Typicalrated10kA) Y-FCTcodeislength.	Code:110 110mV/ kA@50Hz±5% Code:100 100mV/ kA@50Hz±0.5% Code:85 85mV/ kA@50Hz±0.5% Code:50 50mV/kA@50Hz±0.5%	Code:-2m Code:-5m Code:-10m Code:-20m
Code:NRC	Code:100(Typicalrated1kA) Code:150(Typicalrated3kA) Code:200(Typicalrated6kA)		
Code:MRC	Code:16(Typicalrated100A) Code:24(Typicalrated300A) Code:36(Typicalrated600A)	Code:60 60mV/kA@50Hz±5% Code:50 50mV/kA@50Hz±0.5%	
Code:SRC	Code:50 Code:100 Code:150	Code:360 360mV/kA@50Hz±5% Code:333 333mV/kA@50Hz±0.5% Code:100 100mV/kA@50Hz±0.5% Code:85 85mV/kA@50Hz±0.5% Code:50 50mV/kA@50Hz±0.5%	
OtherrequirementcouldbeOEM			

FinalCode=Coilmodel+Coillength(MRCNRCisdiameter)+Outputratiotolerance+SignalcablelengthForexample:Y-FCT-350-100-2misYshapeconnector,coillength350mm,output100mV/kA@50Hz0.5%tolerance,signalcablelengthis2meter

Integrator:

Integrator	Outputform	Outputvalue	Ratedcurrent	Powersupply
Code:D1(DIN-RAILintegrator)	Code:1 (ACvoltageoutput) Code:.2 (DCvoltageoutput)	Code:-333(333mV) Code:-1(1V) Code:-5(5V)	Code:-600A Code:-1kA Code:-3kA Code:-6kA	Code:-12(12VDC) Code:-24(24VDC)
	Code:3 (4-20mAoutput)	N/A		
Code:S9(miniintegrator)	Code:.1 (ACvoltageoutput) Code:.2 (DCvoltageoutput)	Code:-333(333mV) Code:-1(1V) Code:-3(3V)		Code:-12(6-12VDC) Code:-24(24VDC)
Code:S1 (highaccuracyintegrator)	Code:.1 (ACvoltageoutput) Code:.2 (DCvoltageoutput)	Code:-333(333mV) Code:-5(5V) Code:-10(10V)		Code:-12(4-12VDC) Code:-24(24VDC)
	Code:.3 (4-20mAoutput)	N/A		
Code:ATP-01 (1Aoutputthreephaseintegrator)	N/A(0-1A)	N/A		Code:-12(12VDC) Code:-24(24VDC)
Code:A01 (1Aoutputintegrator)	N/A(0-1A)	N/A		N/A(85-265VACDC)
Code:A05 (5Aoutputintegrator)	N/A(0-5A)	N/A		N/A(85-265VACDC)
Code:HF (highfrequencyintegrator)	N/A(0-10VACpeak)	N/A	Code:-1kA(1kA/1V) Code:-10kA(10kA/1V	N/A(4-12VDC)
OtherrequirementcouldbeOEM				

FinalCode=Integrator+Outputform+Outputvalue+Ratedcurrent+PowersupplyForexample:D1.1-1-500A-12isD1integrator,ACvoltageoutput,500Arated,output1V,powersupply12VDCA01-1kAis A01integrator,rated1kA,output1A,powersupply85-265VACDC