

SHo3F21



Unidirectional hall effect Current Sensor 21 mm, 4-20 mA output. Direct current measurement 0 to 25Adc. . .600Adc

- Primary conductor diameter 21 mm max
- Application: Direct and pulsed current
- frequency DC to 20Khz any waveform
- Instantaneous signal output image of the input
- Closing and quick opening secured by screws
- Installation on existing circuit without dismantling
- surface mounting (DIN Rail option)
- Accuracy 0.8%
- Active output 4-20mA (3 wires)
- Power supply: 24Vdc nominal (12V...15V...24Vdc)
- 3Kv insulation

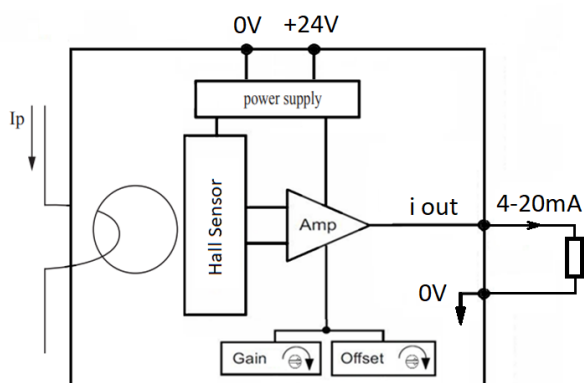
Description :

- Waterproof sensor encapsulated in UL94-V0 epoxy resin
- IP40 protection index; IP20 connector
- Connection on 4-pin plug-in connector
- Output 4..20mA adjustable by potentiometer

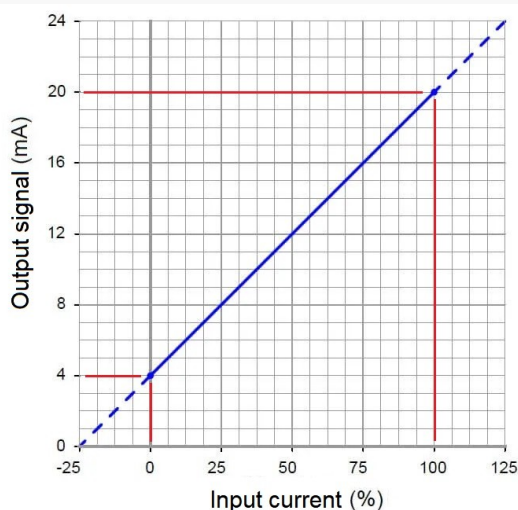
Implementation:

- Possibility of making several turns with the primary conductor in order to adapt the current range.
- Centering of the primary conductor improves accuracy.
- The output signal is in phase with the direction of the arrow engraved on the sensor

Internal synoptic

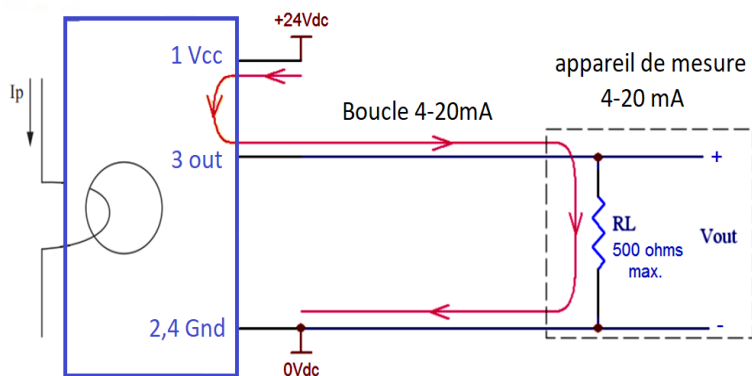
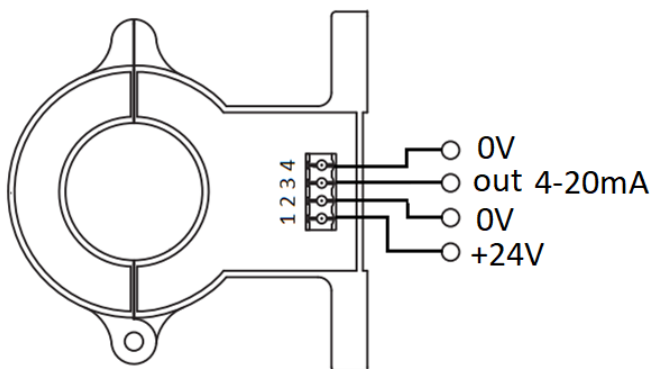


Transfer function

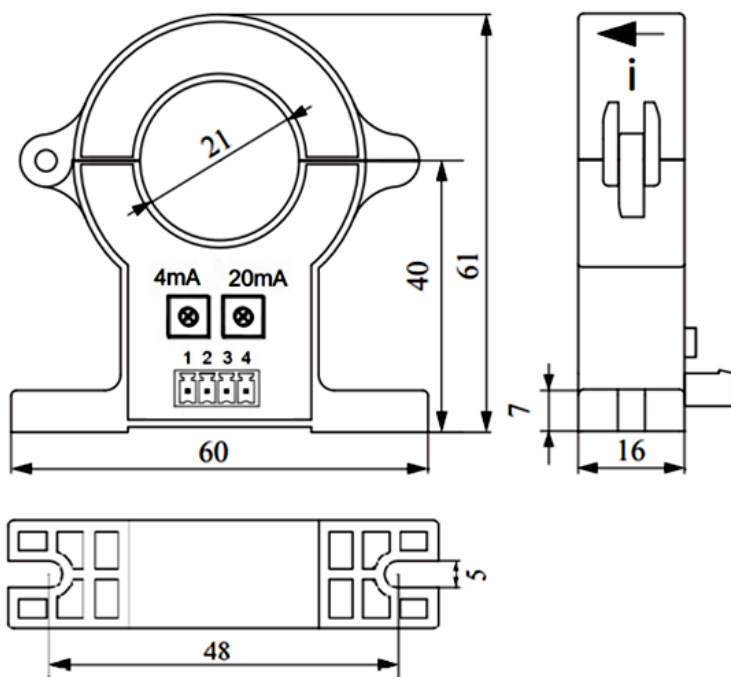


Reference:	Nominal range 4-20mA output	Peak measure Output 36mA
SHo3F21-25	0...25 A dc	50A
SHo3F21-30	0...30 A dc	60A
SHo3F21-40	0...40 A dc	80A
SHo3F21-50	0...50 A dc	100A
SHo3F21-100	0...100 A dc	200A
SHo3F21-200	0...200 A dc	400A
SHo3F21-300	0...300 A dc	600A
SHo3F21-400	0...400 A dc	800A
SHo3F21-500	0...500 A dc	1000A
SHo3F21-600	0...600 A dc	1200A

Option DIN (/D) fourni avec clip de montage pour rail DIN



Footprint



Option:
DIN rail
mounting



Specifications

- Current Input
Measurable current 0.2 Adc. . .600 Adc
(depending on model)
Negligible power consumption
Accuracy +/- 0.7% of caliber @ 25°C
Linearity +/- 0.3%
Offset +/- 0.6%

- Analog output
Current output 4-20 mA
Maximum current 36 mA @ 2 in (not guaranteed)
Load 0...600 Ohms @ 24 Vdc
Load influence < 0.005 % / 100 Ohms
Power supply influence < 0.003 % / V
Thermal stability: +/- 0.005 mA / °C
Response time < 10 us @ 63%
Bandwidth 0...20kHz @ -3dB

- Power supply
Rated voltage 24Vdc
Admissible voltage 12Vdc.....32Vdc
Consumption 25 mA + i output (61mA Max)

- Environment
Operating temperature -25 ..85 °C
Storage temperature -40..100 °C
Hygrometry (not condensed) 95%
Weight 100g
Dielectric strength 3000 Vac
Insulation resistance > 1000 Mohms at 500V
MTBF (IEC TR 62380) > 700,000 Hrs @ 25°C
useful life time > 200,000 Hrs @ 25°C
REACH and ROHS compliance
Shocks IEC 60068-2-27 5 G / 11 ms
shake IEC 60068-2-29 30 G / 6 ms
Vibration IEC 60068-2-6 2 G / 10 . . 150Hz

- EMC
Electromagnetic compatibility 2014/30/EU
Low Voltage Directive 2014/35/EU
Immunity industrial environments EN 61000-6-2
EN 61000-4-2 ESD
EN 61000-4-3 RF
EN 61000-4-4 EFT
EN 61000-4-5 CWG
EN 61000-4-6 RF
EN 61000-4-8 AC MF
EN 61000-4-9 pulse MF
EN 61000-4-11 AC dips
EN 61000-4-12 ring wave
EN 61000-4-29 DC dips
emission industrial environments EN 61000-6-4
EN 55011 group 1 class A

