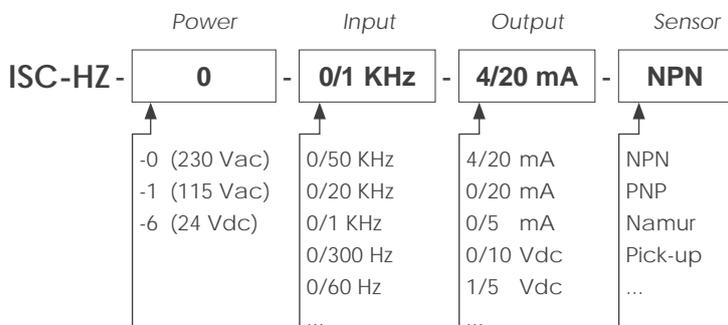


ISC-HZ Signal converter for frequency

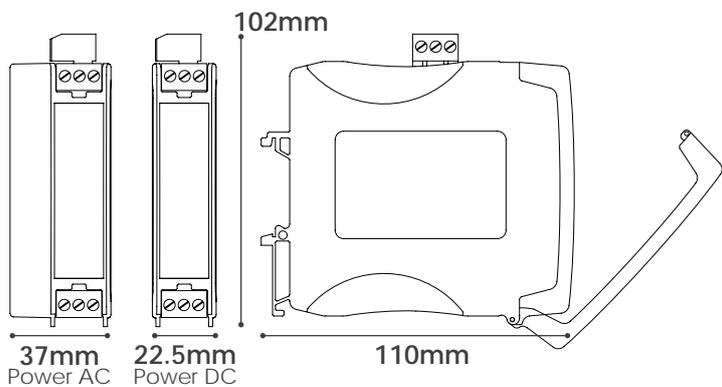
Signal converter for frequency signals, DIN rail mounting. Multiple input signal ranges up to 50KHz and down to 20Hz. Accepts signals push-pull, NPN, PNP, Namur, etc. Output ranges in 4/20mA or 0/10Vdc. Provides excitation voltage for the sensor. Power options in AC and DC. High isolation between input, output and power circuits.



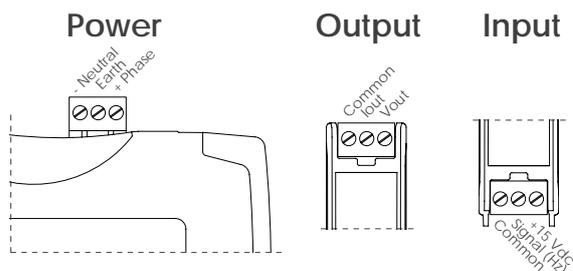
Order reference



Dimensions



Connections



Technical specifications

Input ranges*	Response time (0 to 90%)
0/50 KHz	<150 mSec.
0/30 KHz	<150 mSec.
0/20 KHz	<150 mSec.
0/10 KHz	<150 mSec.
0/5 KHz	<200 mSec.
0/3 KHz	<200 mSec.
0/2 KHz	<200 mSec.
0/1 KHz	<200 mSec.
0/500 Hz	<250 mSec.
0/300 Hz	<250 mSec.
0/200 Hz	<250 mSec.
0/100 Hz	<300 mSec.
0/60 Hz	<300 mSec.
0/40 Hz	<300 mSec.
0/20 Hz	<300 mSec.

Output ranges*	Type	Load
4/20 mA	active	<400 Ohm
0/20 mA	active	<400 Ohm
0/10 Vdc	active	>1 K Ohm
0/1 Vdc	active	>1 K Ohm

* Intermediate input and output ranges are available, operating the Span and Offset potentiometers.

Type of signal	Input impedance	Maximum oversignal
Push-pull	10 KOhm	35 Vdc
NPN	10 KOhm	35 Vdc
PNP	10 KOhm	35 Vdc
Namur	1 KOhm	---
Pick-up	100 KOhm	75 Vdc
<24 Vac	100 KOhm	75 Vdc
<200 Vac	1 Mohm	300 Vdc

General

Signal: frequency signals
 Excitation voltage: +15Vdc (max. 22mA)
 Accuracy: 0.2% F.S.
 Linearity: 0.1% F.S.
 Thermal drift: 250 ppm/°C

Power

Power: 230Vac, 115Vac and 24Vdc
 Consumption: <3.8VA

Isolation*

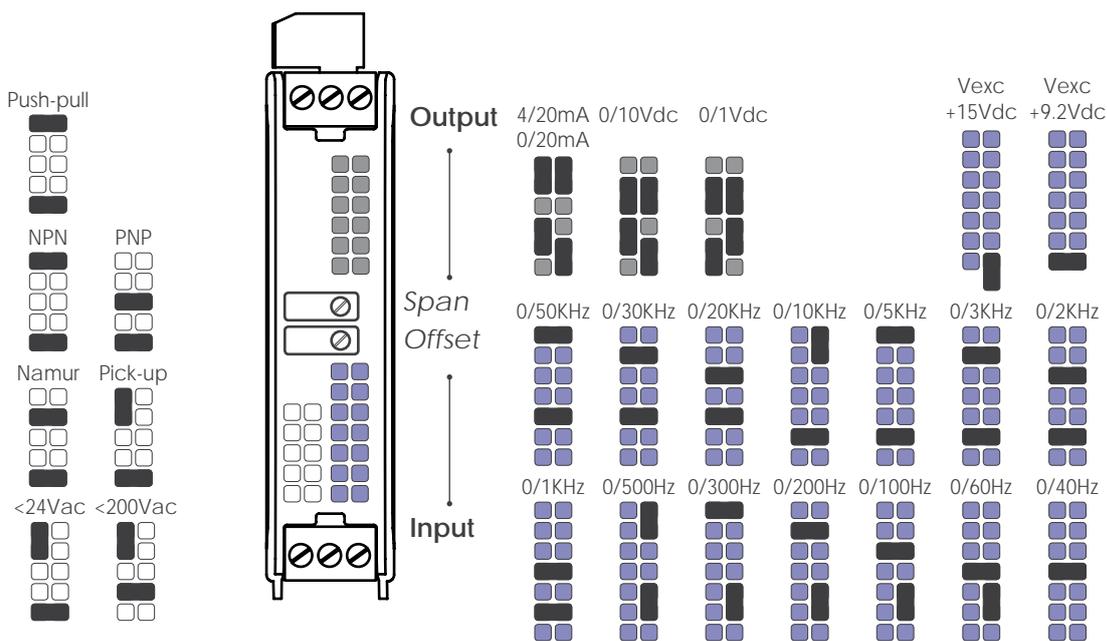
Input-output: 3500Veff, optical
 Power-input: 3500Veff, galvanic
 Power-output: 3500Veff, galvanic (with AC power)
 1000Veff, galvanic (with DC power)

* instrument isolated 3 ways, isolation tested during 60 sec.

Mechanical

Mounting: DIN rail standard (35x7.5mm)
 Connections: pug-in screw terminal
 Weight: 120 grams (with DC power)
 200 grams (with AC power)
 Housing material: polyamide PA6 UL94 V2
 Protection: IP30

Jumpers for range selection



Isolated signal converters Series ISC

	Model																
	ISC-LC	ISC-RES	ISC-HZ	ISC-POT	ISC-IDC	ISC-VDC	ISC-IAC	ISC-VAC	ISC-TS	ISC-TR	ISC-TE	ISC-TT	ISC-TK	ISC-TJ	ISC-PT100	ISC-P	
Signals accepted																	
Process																	•
Pt100 / RTD																•	
Thermocouple J																	
Thermocouple K																	
Thermocouple T																	
Thermocouple E																	
Thermocouple R																	
Thermocouple S																	
Voltages AC																	
Currents AC																	
Voltages DC																	
Currents DC																	
Potentiometers																	
Frequency																	
Resistances																	
Load cells																	

Meters for 4/20mA



Process panel meter 48x24mm - L35/A



Process panel meter 72x36mm - S40-P



Process panel meter 96x48mm - M40-P



Process meter 60mm digit - BDF-24



Process panel meter 100mm digit - BDF-44