SSi INDICATOR FOR ABSOLUTE ENCODER (96 x 48mm)

TYPE : INL35ssi

• *Synchronious Serial interface (SSi) input*

Master or slave mode
8 to 32bits SSi frame in binary or gray format
Encoder powered by indicator

• *Display*

6 digits for value, 4 digits for unit
Easy programming with explicit text message

• *option :*

Up to 3 relays
Isolated analogue output
RS485 Modbus/Profibus link
ETHERNET Modbus TCP or Profinet io link

• *Plug-in connectors*

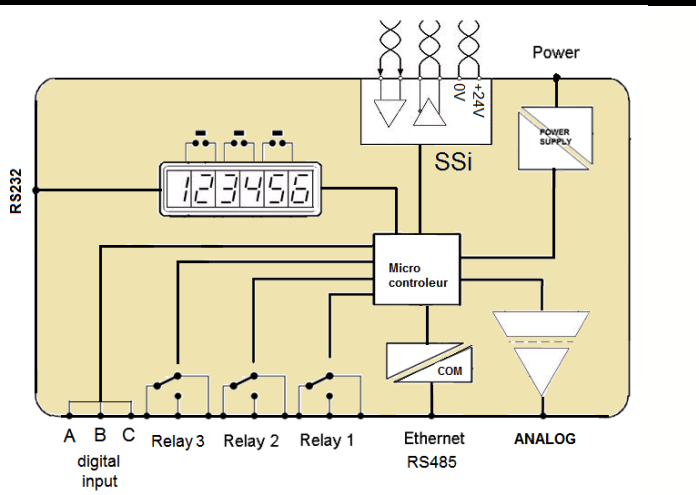
• *Universal supply (Ac and Dc)*

The INL35ssi is a position indicator for SSi absolute encoder. It has a wide range of interfaces, from simple relay or analogue output to Ethernet communication.

DESCRIPTION:
The SSi interface consist of 2 pairs of wires:
One for transmitting the clock signal from a master and the other for transmitting the data from the slave (encoder).
The number of clock pulse depend of the number of bit in the ssi frame.
A third pair of wires can provide the power supply for the encoder.
Input :
SSi master or slave operation with baud rates up to 1MHz,
for SSi single-turn and multi-turn encoders from 8 up to 32bits.
Programmable low and high display value
Programmable lenght of ssi frame, bit blanking,...
Auxiliary output 24Vdc/100mA for supply of SSi encoders
3 programmable logical inputs (Hold, Tare, ….)
Calculations and software functions:
Multiply/divide factor, adjustment of zero value
Code sense, minus sign, offset (Tare function),
Freeze display (Hold function)
Special linearization on 26 points
Front face :
- Value display: 6 digits, 7 segments LED, 14,2 mm high
- Unit display: 4 digits, alphanumerical LED display
- 3 push buttons for the complete device configuration
- 4 red led for relays state and Tare function.
Analogical output (/S option)
- isolated analogical output suitable,
- programmable in current (0... 4... 20 mA) or voltage (0… 1… 5… 10 V) mode
- programmable response time and security value.
Relays (/R option)
- Up to 3 relays with dry changeover contacts, use in alarm or ssi link breaking.
- Threshold, sense, hysteresis and delay freely programmable for each relays
General characteristics:
- standard housing 96x48mm
- Protection class: IP20, IP65 in option
- Unpluggable 1.5mm^2 screw connector
- Universal power supply:
  20... to … 265Vac/dc or 9Vdc… to … 30Vdc
- Tropicalization varnish.

Security / reliability :
- configuration settings saved in FLASH, data retention > 40 years,
- a "Watchdog" controls the good running of programme
- galvanic isolation input / outputs / supply
Configuration:
The device may be configured with the front face buttons or by a RS232 serial link (terminal mode). A USB—jack 3.5 cable is available separately.
- Firmware update possible by USB link.

Synoptique:



Version and order code:

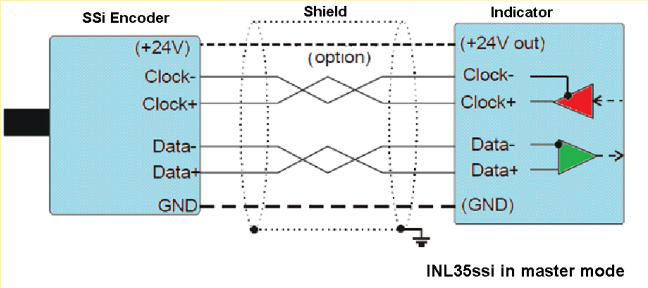
Request a quote

INL35ssi	basic version, 6 digits display
INL35ssi/R1	+ 1 relay
INL35ssi/R2	+ 2 relays
INL35ssi/R3	+ 3 relays
INL35ssi/S	+ 1 analogical output
INL35ssi/C	+ RS485 link MODBUS/PROFIBUS
INL35ssi/CMTCP	+ ETHERNET MODBUS TCP link
INL35ssi/CPTCP	+ ETHERNET PROFINET IO link

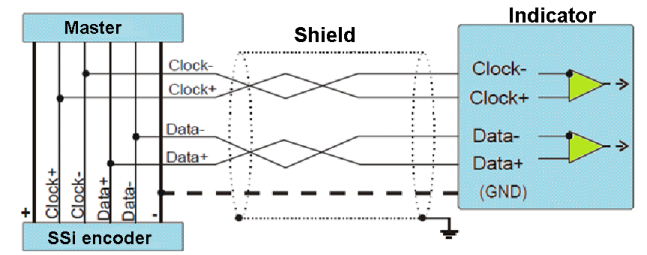
options /R3 , /S , /C , /CMTCP et CPTCP are not combinable

SSi INPUT

SSi input type Differential RS 422 / RS485
Programmable SSi clock baud rate
Clock baud rates 100 KHz ... 1 MHz
Master mode : Output differential RS 422 / RS485
Slave mode : Differential Input RS 422 / RS485
Common mode protection : +/-70V
ESD protection : +/-16Kv
Refresh rate : 100 measures / seconde.



INL35ssi in master mode



INL35 ssi in slave mode

AUXILIARY

Encoder supply 22 V regulated +/- 5% (100mA)

LOGICAL INPUTS

Reset / Hold input : dry contact or voltage
Low level : 0...2 Vdc
High level : 4.....35Vdc
pulse duration mini: 20 mS

POWER SUPPLY

2 versions available : not polarized, standard and low voltage:
standard : 21Vdc,55Vac....to.....265Vac/dc
Low voltage : 12Vdc....to.....30Vdc.
consumption < 6 VA

Analogical output (12 bits resolution)

Type	**Range**	**Accuracy**
Current	0 ... 4 ... 20 mA	+/- 20 µA
Load:	0.....800 Ohms	
Voltage	0 ... 10 V	+/- 10 mV

Output impedance: 500 Ohms (internal 0.1% shunt)
Response time (programmable) from 10 ms to 60 sec

RELAY

Breaking capacity: 250VAC , 1A (250 VA)

COMMUNICATION

RS485 link, 2 protocols:
Modbus 1,2 to 38,4 kbds.
Profibus-DP 9600 to 1.5M bds.
Wiring 2 wires screw terminal.

Ethernet (RJ45) 10/100 M with Modbus-TCP or Profinet io

ENVIRONMENTAL DATA

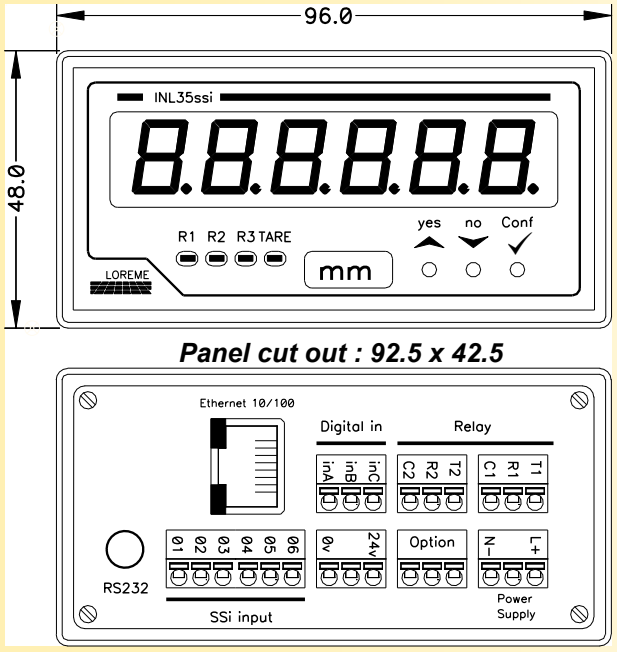
Operating temperature -10 to +60 °C
Storage temperature -20 to +85 °C
Drift < 50 PPM / °C
Relative humidity 85 % (no condensed)
Weight ~ 180 g
Protection IP20
Dielectric strength 1500 Vrms continuous

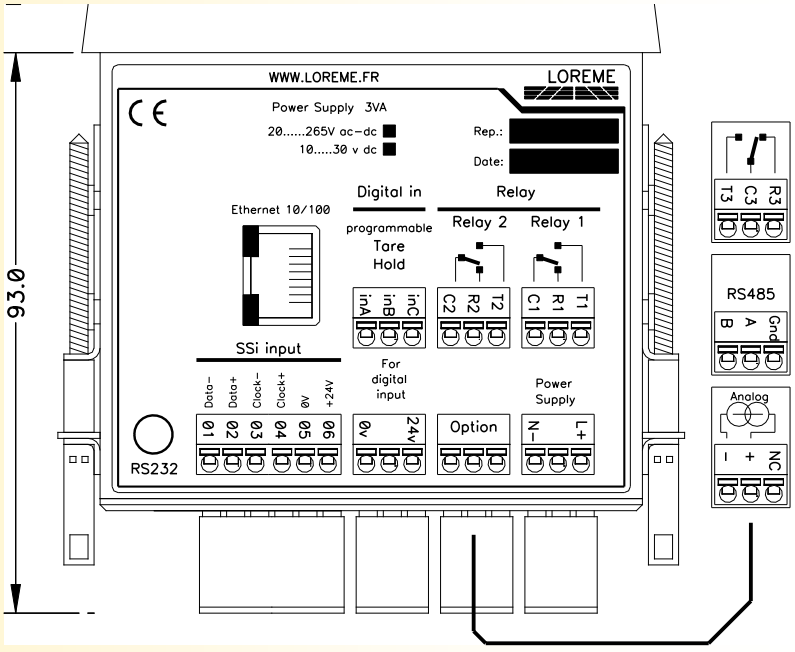
Electromagnetic compatibility

Generic standards: **NFEN50081-2 /NFEN50082-2**

EN55011	meet	groupe 1 / classe A			
EN61000-4-2	no influence	B	**EN61000-4-3**	< +/- 5 %	A
EN61000-4-4	< +/- 5 %	B	**EN61000-4-6**	< +/- 10 %	A
EN61000-4-5	< +/- 5 %	B			
EN61000-4-8	no influence	A			
EN61000-4-11	< +/- 5 %	B	**DBT**	**2006/95/CE**	

WIRING AND OUTLINE DIMENSIONS:





On account of the constant technologies and standards evolution, LOREME keeps the possibility to modify the specifications of the included products without notice.