

Overview



INPUD-A/B (Inductive Power and Data Transmission for Analog and Digital Sensors) is a modular system for contactless transmission of electrical energy for supplying 2 analog and 2 digital sensors (inductive, capacitive, optical) on rotating shafts, axles or pallets.

The respective measured values and switching states of the sensors are transmitted over the air gap back to the stationary part. Transmission is carried out as a serial data stream; automatic error detection i.e. error correction is integrated in the system. INPUD-A/B operates independently of rotational speed, transmission is carried out reliably even under the harshest ambient conditions (dust, water, oil, etc.).

Since it has no mechanically contacting parts, INPUD-A/B requires no servicing and no regular maintenance. The integrated LEDs indicate the status of the data communication and power control. This status information can also be fed directly to the control, guaranteeing correct and reliable operation at all times.

INPUD products are available in different performance categories and form factors. Please contact MESA for more information.

Features

- 2 analog (0..10 V) and 2 binary (0/24 V) standard sensors can be connected
- flexible wiring, assembled connection cable available
- 12 bit signal resolution
- different form factors /performance categories available
- high data integrity, digital transmission method
- not affected by electromagnetic radiation
- inputs/outputs reverse polarity protected

Your benefits

- simple and fast installation
- no maintenance required, suitable for 24/7 continuous operation
- housing protection IP67
- rotational speeds up to 3500 1/min
- status/power-on indication via LED and plug connector
- suitable for harsh industrial environments (e.g. dirt, dust, moisture, etc.)

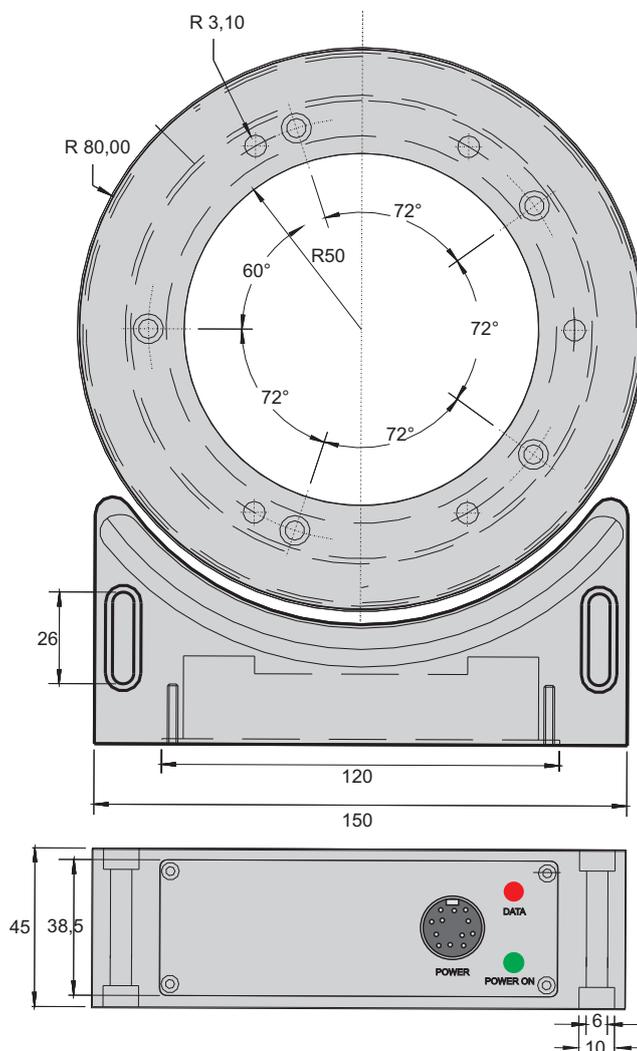
Applications

- Machinery, rotary indexing tables
- Printing rollers
- Test benches
- Stranding machines

Technical data

Stator	Power supply	24 VDC±10%/1 A max.
	Interface	2 analog channels 0..10 V 2 binary channels 0/24 V (pnp)
	Response time	2ms
	Connector plug	Binder 723 straight, 12-pin included in delivery
Rotor	Accuracy	12 bit D/A converter
	Inputs	2 analog channels 0..10 V 2 binary channels 0/24 V (pnp)
	Sensor supply	24 VDC/120 mA
	Connection for sensors	1,5 m cable, 10-core
	Sampling rate	250 Hz
	Accuracy	12 bit D/A converter
Mechanics	RPM	< 3.500 1/min
	Housing	PETP/Aluminium
	Protection class	housing IP67
	Air gap	2 mm (±1,0 mm)
	Temperature range	0..60°C
	Dimensions	as in sketch, 3D-Data available on request
	Mounting	screws M6

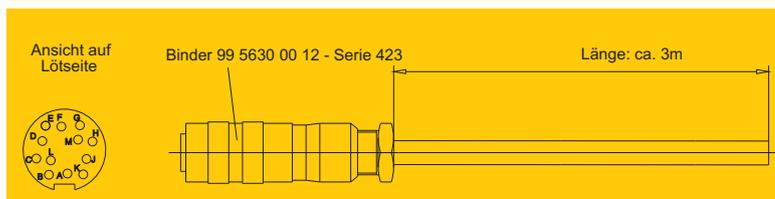
Dimensions



Dimensions INPUD-A/B 100, protection class IP67

Accessories

Art.-No.: 09100350
 Connection cable for INPUD A/B 100/315 mm
 for connecting to stator
 Length: 3 m, PUR outer sheath, shielded



Your contact



MESA

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