

### Overview



INPUD-SLK (Inductive Power and Data Transmission for Serial Bus Systems) represents the basis for a modular system for contactless transmission of electric energy to supply electrical consumers.

These consumers are preferably located on rotating or moving devices or machines, i.e. where a conventional cable, plug or slip-ring connection is not possible. The reason for this could be, e.g., automatic changing of gripper systems, or that transmission via a slip ring is just not economically sensible due to high speed, 24/7 operation or technical safety considerations. In addition to energy, electrical data in transparent mode are transmitted for communication between controllers.

Besides air, the electromagnetic flux lines can penetrate glass, (salt-) water and other non-conductive materials. INPUD-SLK operates independently of rotational speed and transmits reliably even under the harshest environmental conditions (dust, water, oil, etc.). Since it has no mechanically contacting parts, INPUD-SLK requires no servicing and no regular maintenance. An integrated, load-dependent power control system guarantees maximum durability. INPUD products are available in different performance categories and form factors. Please contact MESA for more information.

### Features

- 100W@ 24V available on Secondary part
- easy to install via prefabricated cable and Status output signal on Primary Part
- CAN, RS485, IO-Link, Modbus, Profibus or DMX interface
- Datarate up to 500 kB
- different form factors and performance categories available
- smart control loop ensures minimal power losses and thus highest possible life time
- not affected by electromagnetic radiation

### Your benefits

- simple and fast installation
- very compact design
- housing protection IP67
- galvanically separated and isolated, no danger to persons
- suitable for harsh industrial environments (dirt, dust, moisture, etc.)
- no maintenance required, suitable for 24/7 continuous operation

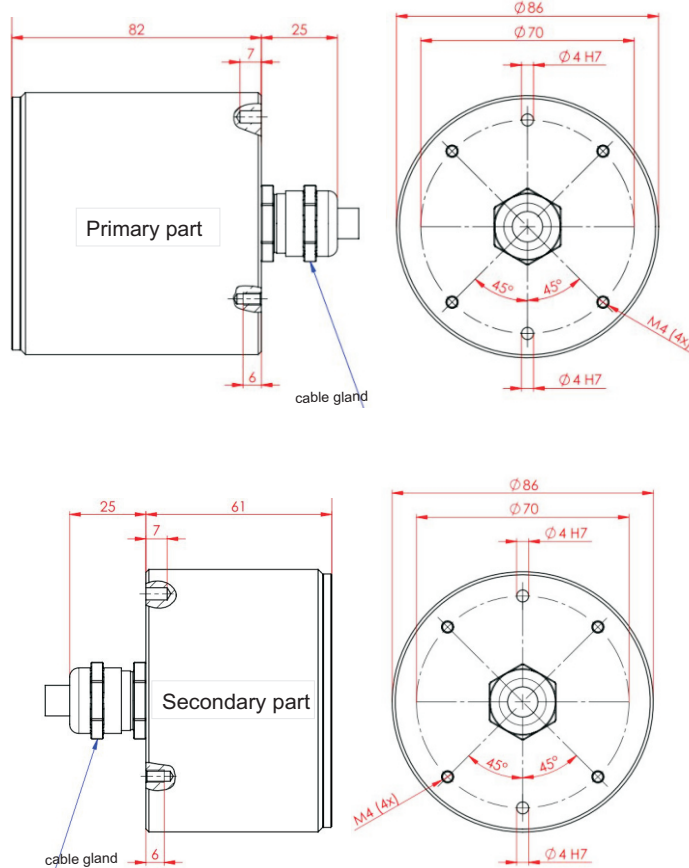
### Applications

- Mechanical engineering / robotics
- Printing rollers
- Factory automation / Industry 4.0
- Marine engineering

### Technical data

<b>Stator</b>	Power supply	24 VDC, load dependend up to 5,3 A
	Interface	RS 485, DMX, CAN, Modbus, Ethernet IP (plan), IO-Link
	Operating mode	repeater and transparent
	Status output	9 errorcodes (open drain out)
	Baud rate	up to 500 kB
	Latency	>70 $\mu$ s
Housing	see Dimenison or application specific	
<b>Rotor</b>	Secondary power	24 VDC, 100 W
	Interface	RS 485, DMX, CAN, IO Link, Ethernet IP (projected)
	Operating mode	reapeater and transparent
Housing	see Dimenison or application specific	
<b>Mechanics</b>	Housing	Aluminium anodized, PETP
	Connection	cable tail 5 m long, shielded, 5 x 1.5 mm <sup>2</sup> cable wires
	Air gap	1 mm nominal, in radial direction $\pm$ 1 mm
	Operating temperature	-20 °C .. +60 °C
Protection class	Ip67	

### Dimensions



Dimensions INPUD-SLK, protection class IP67

### Accessories

3 D data available upon request

### Your contact



**MESA**

MESA Systemtechnik GmbH  
 Turmstraße 8  
 78467 Konstanz | Germany  
 Telefon: +(49)07531/9371-0  
 Telefax: +(49)07531/9371-71

Email: [info@mesa-systemtechnik.de](mailto:info@mesa-systemtechnik.de)  
 http:// [www.mesa-systemtechnik.de](http://www.mesa-systemtechnik.de)



Stand: INPUD-SLK\_E 01425\_3  
 Technische Änderungen vorbehalten/  
 Subject to modification