Power Remote Sensors Radial type system for max. 8 PNP sensors

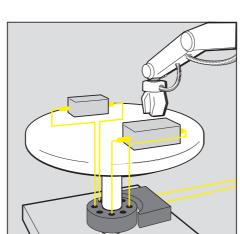
Non-Contact Energy and Data Transmission

The system has a modular design for non-contact transmission of energy for powering up to 8 binary PNP sensors on rotating shafts, axles or tables.

The switching state of each sensor is transmitted over the air gap to the stationary component. The system works independently of the rotation speed, and transmission is reliable even under the harshest ambient conditions.

Since no mechanically contacting parts are used, this technology completely eliminates all service and maintenance procedures.

- No-slip rings necessary
- Intelligent, compact and noise-immune system: inductive, non-contact, wear-free
- Connects up to 8 sensors
- Integrated supply energy for the sensors
- Connect, turn on, process data



Housing size	
Type	
Transmission distance	
Installation type	



*Order as a set Part number: RPEM 4502P-ST05

1× Output sensor RPEM 4502P-ST and

1× Connector BKS-S 96-PU-05 and

1× Connector BKS-S 97-PU-05 (Connector with 5 m PUR cable)

ransmiller	
Output sensor	PNP

Assured transmission distance Supply voltage U_B incl. ripple Voltage drop U_d at I_e Rated operational current le No-load supply current I₀ max. Off-state current I_r Short circuit protected

Axial/radial offset Operating current (for sensors) Output voltage (for sensors) Rated insulation voltage Ui

Ambient temperature range Ta Switching frequency f Function/Supply voltage indicator

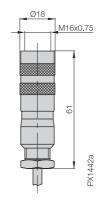
Degree of protection per IEC 60529

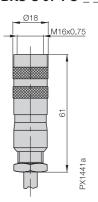
Housing material Material of sensing face Connection type Recommended connector Weight

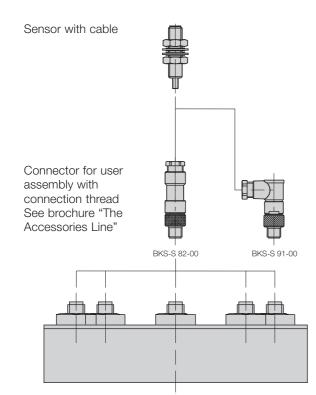
For your electrical planning, please ask for the user's guide!

Connectors BKS-S 96-PU-__

BKS-S 97-PU-__



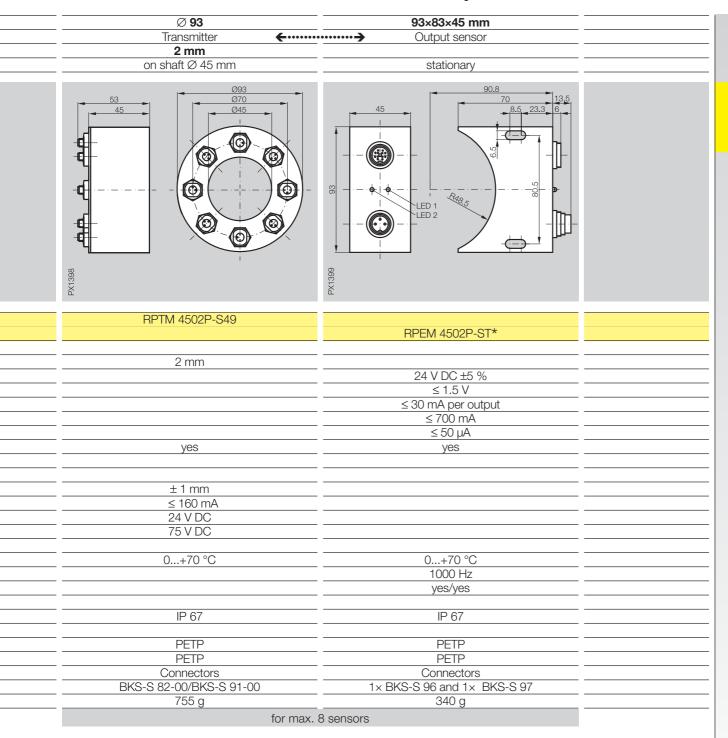




WER REMOTE

Inductive **Transmission Systems**

Power Remote Sensors Radial type system for max. 8 PNP sensors





Inductive Transmission Systems

Power Remote Sensor Radial type system for max. 4 analog signals 0...10 V DC

Non-contacting inductive energy and analog signal transmission for applications where cables are not permitted

The transmission of sensor signals from rotating machine members or from interchangeable tools often represents a difficult challenge for the designer. The same applies to the power supply for the sensors and actuators in such applications. Conventional approaches are usually based on contactand wear-prone solutions such as slip rings or mechanical connections.

But electronic solutions are non-contacting, wear-free and are for the most part immune to contamination. Availability of a reliable and at the same time quick-disconnect link for power and data is indispensable in such circumstances. The Remote System from Balluff offers a wear-free, non-contacting alternative.

This flexible solution approach with the option of radial or axial coupling gives the user a new range of freedom.

New to the system is transmission of up to 4 independent analog signals with a single Radial system. The greater level of power provided for the sensors makes it possible to connect different analog systems.

Non-contacting signal transmission from BAW inductive distance sensors or BIL magneto-inductive displacement sensors is no longer a problem. BTL linear displacement transducers with analog output can also be connected with no restrictions.

Plugs BKS 08-CS-00

for unused inputs (please order separately)



Housing size
Type
Transmission distance
Installation type



Transmitter
Output sensor

Ready delay

Assured transmission distance Supply voltage U_B incl. ripple Voltage drop U_d at I_e No-load current I_0 max. Off-state current I_r Short circuit protected

Load resistance R_L (per output)
Resolution
Measuring Voltage input
range Voltage output
Radial offset
Operating current (for sensors)
Output voltage (for sensors)
Rated insulation voltage U_i

Ambient temperature range T_a Switching frequency f Function/Supply voltage indicator

Degree of protection per IEC 60529

Housing material
Material of sensing face
Connection type
Recommended connector
Weight

For your electrical planning, please ask for the user's guide!

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Inductive **Transmission Systems**

Power Remote Sensor Radial type system for max. 4 analog signals 0...10 V DC

