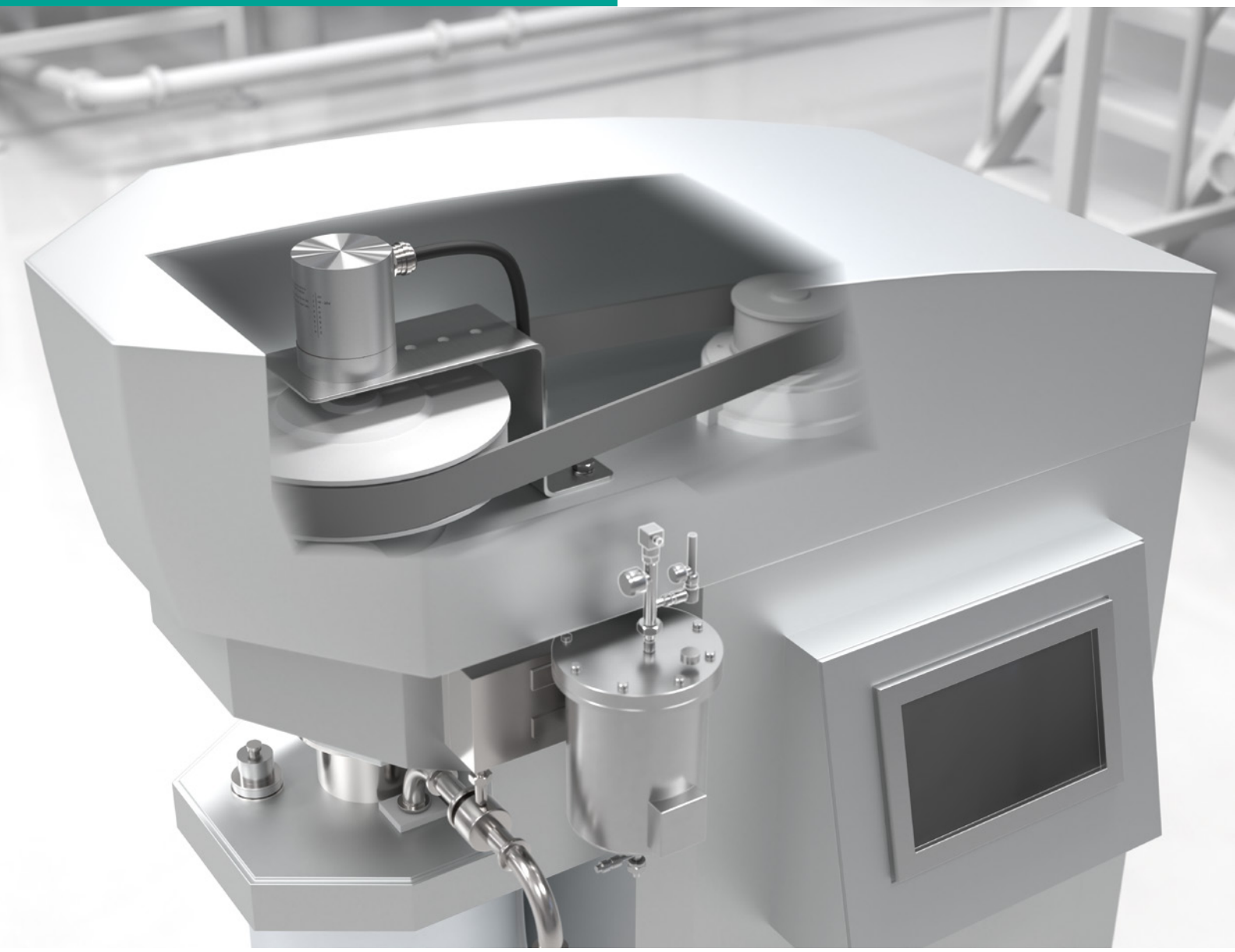
For Extreme Conditions.

Certified for use in explosion-hazardous areas—from oil and gas to battery manufacturing.

RVI70E Incremental Rotary Encoder



Your automation, our passion.

PEPPERL+FUCHS

RVI70E Incremental Rotary Encoder

Reliable Performance in Explosion-Hazardous Areas

- Incremental
- Ball bearing
- Shock-/vibration-resistant
- Use in hazardous areas
- IP67 Degree of protection



Whether in extreme climatic conditions or in demanding process applications, the RVI70E explosion-protected incremental rotary encoder delivers precise measured values and maximum operational reliability. With international Ex certifications, a robust design, and high performance, it is the reliable solution for a wide range of applications worldwide.

Suitable for Any Climate

The Ex rotary encoder RVI70E with ATEX, IECEx, CCC, and KOSHA certification for Zones 1 and 21 not only offers high protection—with its seawater-resistant housing, it is also suitable for use in offshore areas. The high rotational speed of 6,000 rpm with an extended temperature range of –40 °C to 70 °C enables reliable use even under extreme climatic conditions. The compact housing design ensures efficient use of space. The rotary encoder is certified for use in explosion-hazardous areas (Group II).

Precision for Battery Manufacturing

In silicon grinding for the production of modern battery materials, the Ex rotary encoder, for example, reliably monitors a lifting mechanism that controls an asynchronous motor in an agitator mill. Its precise position and speed signals ensure safe and stable plant operation—even under demanding process conditions. The solution has proven itself worldwide in grinding plants, particularly in the European and Asian markets.

For more Information, visit
pepperl-fuchs.com/pf-rvi70e

Excerpt of Technical Data	RVI70E
Housing design	Ø 70 mm
Mechanical version	Solid shaft
Shaft dimension	Ø 10 mm to Ø 12 mm
Flange type	Clamping, servo, and Euro flange
Max. rotational speed	6,000 rpm
Degree of protection	IP66 and IP67
Max. shaft load	Axial: 110 N, radial: 150 N
Connection method	Cable
Connection output	Axial and radial
Electrical interface	Push-pull and RS-422
Resolution	Up to 5,000 pulses
Certifications	Ex II 2G Ex d IIC T6–T4 Gb Ex II 2D Ex t IIIC T80 °C Db IP6X CCC, KOSHA
Order code	RVI70E

Highlights

- Certification for worldwide use
- Robust ball-bearing design ensures a long service life
- Compact design, ideal for confined spaces
- Suitable for use in challenging environments with a high degree of protection and seawater-resistant housing
- Large range of applications due to extended temperature range of –40 °C to +70 °C and high rotational speeds
- Wide range of variants for easy adaptation to any application



Your automation, our passion.

- Industrial Sensors
- Industrial Communication and Interfaces
- Enterprise Mobility
- Hazardous Area Products and Solutions

www.pepperl-fuchs.com

Subject to modifications • © Pepperl+Fuchs
Printed in Germany • Part. No. 70212239 08/26 • public

Pepperl+Fuchs Quality
Download our latest policy here:

www.pepperl-fuchs.com/quality

PEPPERL+FUCHS