Perfectly Engineered.

Exceptionally powerful and versatile: the new HF generation for every identification task.

HF RFID Read/Write Devices
IQH4 and IQT4



Your automation, our passion.

PEPPERL+FUCHS

HF RFID Read/Write Devices IQH4 and IQT4

High-Performance RFID

The IQH4 and IQT4 series read/write devices deliver exceptional performance and flexibility. With consistent functionality, multiple designs and interfaces, and adjustable power levels, these devices can be precisely tailored to meet the demands of a wide range of applications.





HF read/write devices | Detection range of up to 300 mm | Multitag detection | Degree of protection | Ambient temperature

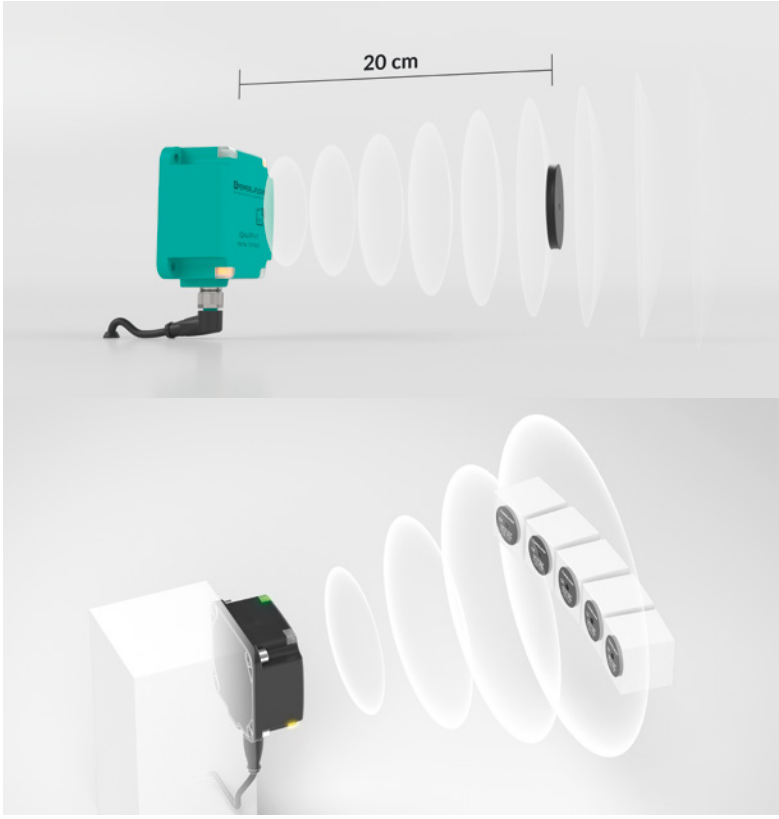
Maximum Flexibility for Any Mounting Requirement

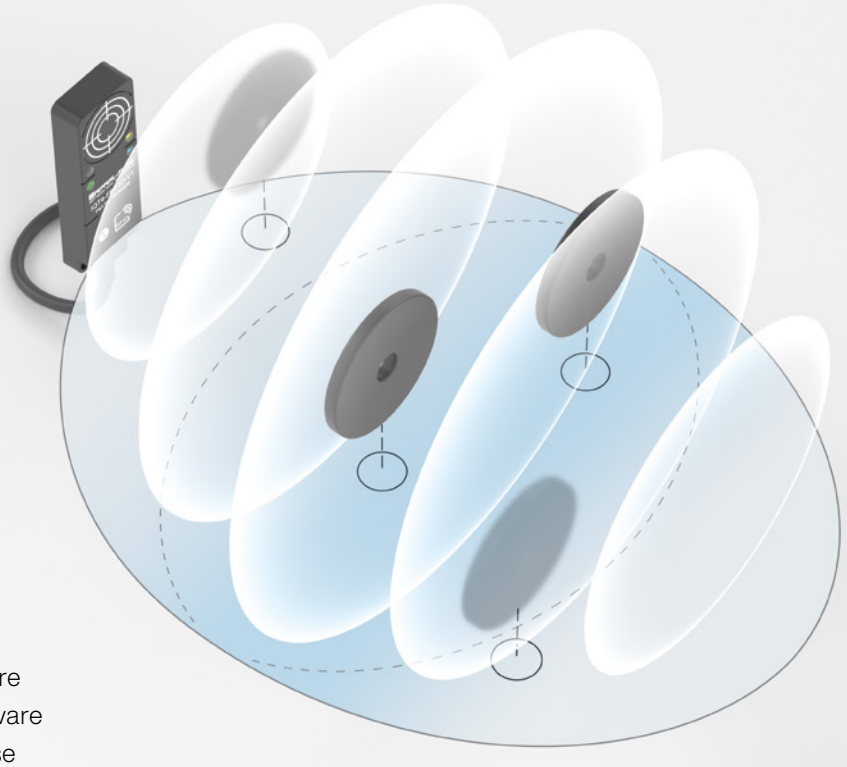
The new generation of HF read/write devices features a consistent operating principle across the entire product family. A wide range of designs, from cylindrical and cubic models to specialized versions, provides the flexibility to adapt to virtually any installation condition or available space. Multiple interfaces, including IDENTControl, IO-Link, and RS-485, ensure seamless integration into a wide variety of automation systems.

Excerpt of technical data	**18GM** 	**F61** 	**FP** 	**F198** 
Order designation	IQH4-18GM-V1 IQT4-18GM-R4-V1 IQT4-18GM-IO-V1	IQH4-F61-V1 IQT4-F61-R4-V1 IQT4-F61-IO-V1	IQH4-FP-V1 IQT4-FP-R4-V1 IQT4-FP-IO-V1	IQH4-F198-V1 IQH4-F198-M-V1
Typical read/write range	0 ... 80 mm	0 ... 120 mm	0 ... 200 mm	0 ... 300 mm 0 ... 220 mm
Dimensions	ø 18 × 66 mm ø 18 × 63.5 mm (IO-Link)	80 × 28 × 12 mm	80 × 80 × 40 mm	190.5 × 175 × 12 mm
Ambient temperature	–25 ... 70 °C (operation with nontransmission periods) –25 ... 50–70 °C (continuous transmission operation; see manual)			
Degree of protection	IP67, IP69			
Interfaces	IDENTControl, IO-Link, RS-485			

Extended Read/Write Range

With read/write ranges of up to 30 cm, the IQH4 and IQT4 series deliver reliable tag identification, even at varying distances and high speeds. Adjustable power levels provide precise control for application-specific performance, while simultaneous detection of up to 20 tags dramatically increases throughput and keeps automated processes running efficiently.





Reliable Identification

Reliable read/write performance, even in challenging environments, is enabled by adaptive resonance adjustment, which compensates for environmental influences such as nearby metal. Clear diagnostics are provided through the LED status indicator and software parameters. Freely definable RSSI limits enable precise monitoring of detection distance and signal quality while helping to identify faulty tags.

Precise Positioning for Autonomous Shuttles

In modern pallet warehouses, autonomous rack shuttles handle material transport with speed and precision. Accurate position data is essential for reliable vehicle guidance and helps prevent collisions with materials and other objects.

The IQT4-FP-R4-V1 provides reliable position detection by reading tags at defined reference points. Its extended read range ensures accurate localization even at high speeds and with mechanical tolerances. This enables precise vehicle guidance, helps prevent collisions, and keeps material flowing without interruption.

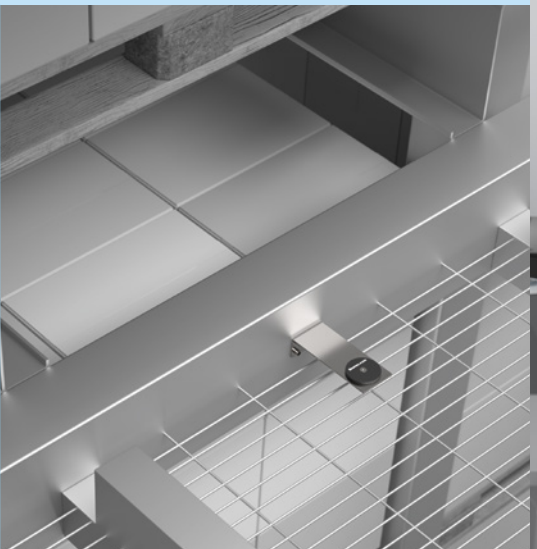
For more information, visit
pepperl-fuchs.com/pr-IQH4-IQT4

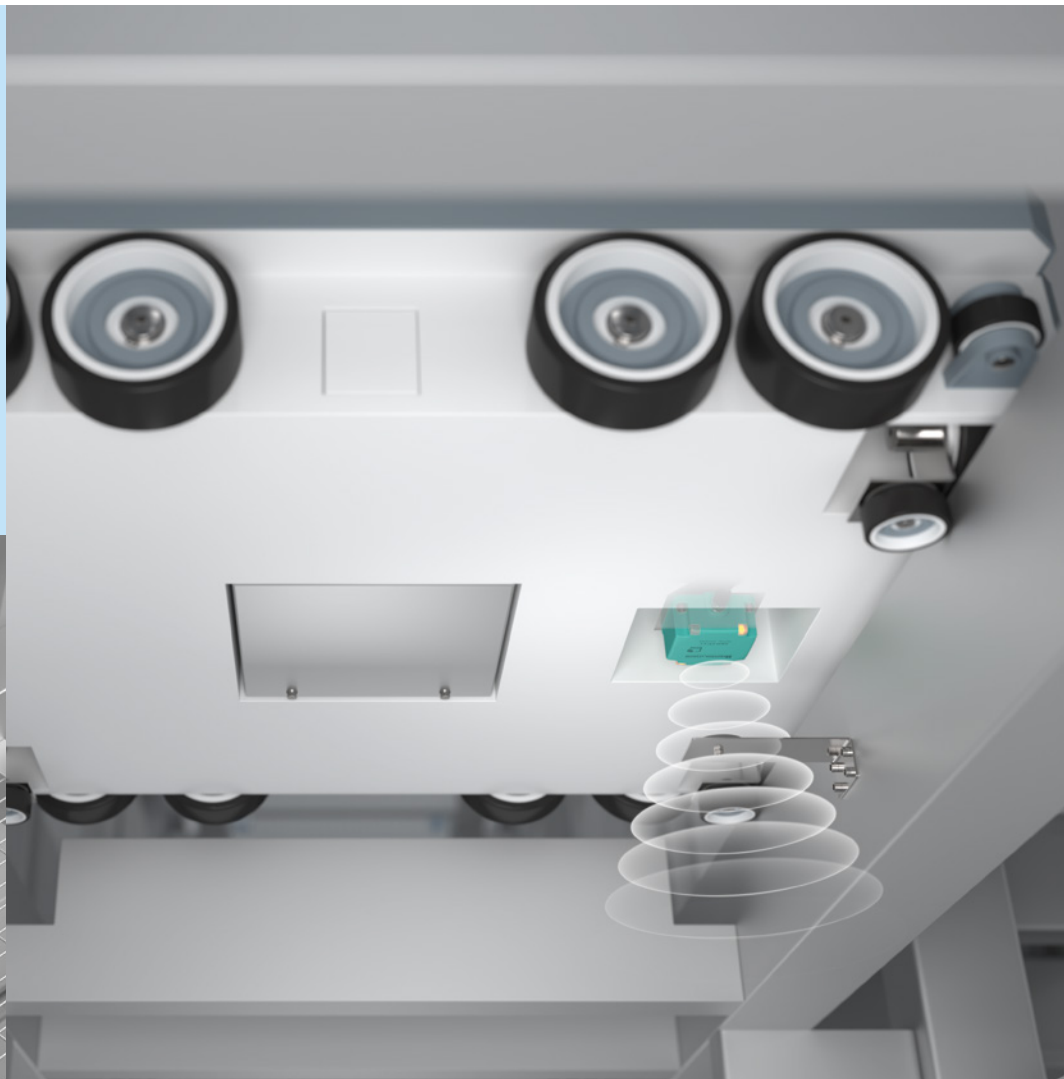




Highlights

- Perfectly engineered HF read/write devices for maximum RFID performance
- From cylindrical and cube-style to specialized: consistent functionality across a wide variety of designs
- Easy system integration through connection via IDENTControl, IO-Link, or RS-485
- Extended read/write range for secure tag identification—even with positional tolerances and high speeds
- High process reliability due to automatic adjustment to environmental interferences and output of RSSI values
- Particularly wide sensing range and multitag capability for optimum adaptation to the individual application





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