

# RFID: The new HF generation

## Improved RFID IO-Link antennas

- Faster data transmission thanks to IO-Link COM3 communication standard
- Internal synchronisation of tag data and target value relieves the controller
- Additional switching output enables use even without the IO-Link master



IP69



**ifm** – close to you!

### Faster data communication and SIO mode

In the 2nd generation, the HF RFID antennas with IO-Link are characterised by improved values and extended possibilities. While the IO-Link COM3 communication standard ensures the fastest possible data transmission, the additional integrated switching output expands the possible applications of the antennas: they can also be operated in SIO mode without being connected to an IO-Link master and act as normally closed or normally open contacts.

### Suitable for access control

As the antennas also support the ISO15693 and ISO14443 standards, they are the ideal choice for access control as well as for switch control in factory automation, for example.

### On-board data analysis

In addition, the 2nd generation is equipped with two data comparators that can be used separately or in combination. The antennas are therefore able to read and process values from tags. For example, the tag value can be compared with defined target values and a signal can be output accordingly via IO-Link or switching output. No additional controller is required.

### Password support and tag type detection

Automatic tag type detection ensures reliable reading of values even with varying block sizes. The option to restrict read and write access to tags via password entry completes the improved range of 2nd generation HF RFID antennas.

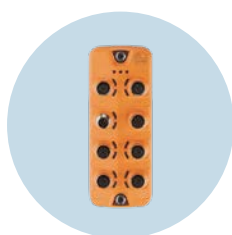
Type	Installation	Length / dimension [mm]	Order no.
M12	f	70	<b>DTI110</b>
M12	nf	70	<b>DTI111</b>
M18	f	50	<b>DTI120</b>
M18	nf	50	<b>DTI121</b>
M18	f	70	<b>DTI124</b>
M18	nf	70	<b>DTI125</b>
M30	f	50	<b>DTI130</b>
M30	nf	50	<b>DTI131</b>
M30	f	70	<b>DTI134</b>
M30	nf	70	<b>DTI135</b>
Cube	nf	40 x 40 x 54	<b>DTI213</b>
Rectangular	nf	20 x 48 x 7 Cable length: 1 m	<b>DTI215</b>
Rectangular	nf	20 x 48 x 7 Cable length: 2 m	<b>DTI216</b>
Compact design	nf	120 x 113 x 50	<b>DTI300</b>

f = flush

fl = non-flush

Technical data	
Switching output	PNP, NPN
Operating mode	IO-Link, SIO mode
Protection rating	IP67, IP69, DTI300 IP67

## BEST FRIENDS



**IO-Link master**  
Field-compatible masters with PROFINET interface



**moneo Track & Trace**  
Track and optimise the flow of goods



**ID tags**  
RFID tags for easy identification of objects



For further technical details, please visit:  
[ifm.com/fs/DTI110](https://ifm.com/fs/DTI110)