

RFID system ID 40

Identification and data storage system ID 40



The ID 40 identification system enables a secure and fast provision of workpiece data on the workpiece pallet. There needs to be certain information available on each arriving part at every workstation, for example:

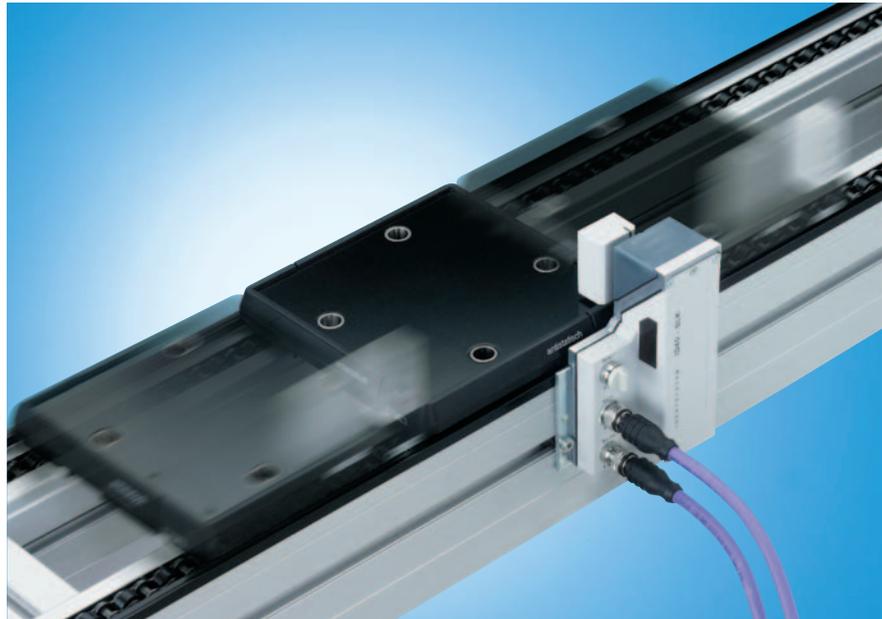
- Type of workpiece
- Production stage
- Next processing step
- Parameter settings

These are particularly important if more than one product model is being processed on the same circuit. These data are stored by a stationary read/write head (SLK)  3-4 on a mobile data tag (MDT)  3-3, which is directly located on the workpiece pallet (WT) and stays there throughout the entire assembly process. This decentralized data storage ensures short access times and optimum system availability.

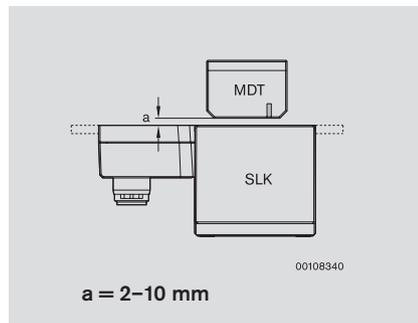
An integrated delete function that only has to be triggered in the SLK makes it possible to empty the data storage without remaining near the SLK.

The read/write head (SLK) offers a direct fieldbus connection, for the
 - PROFIBUS DP
 fieldbus system via M12 plug connectors.

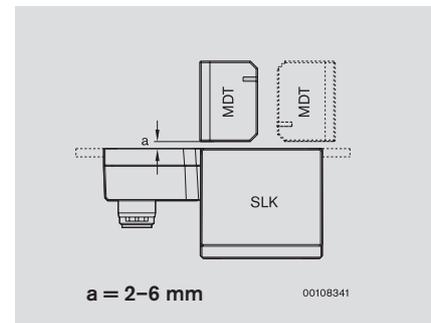
The ID 40 is suitable for dynamic data transfer: When travelling past at a distance of "a" with a transport speed of up to 30 m/min the transfer capacity of 64 bytes is reached.



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Front transmission area



Side transmission area

A user manual, current information and software can be downloaded at www.boschrexroth.com/RFID

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Mobile data tag ID 40/MDT...



The mobile data tag (MDT) for the ID 40 is located on the workpiece pallet and saves the workpiece data. The compact MDT has a non-volatile RAM (no battery buffer required). It can be read and written up to 10 billion times on three sides (on the front, left and right). The MDT can be mounted in a variety of different positions on the workpiece pallet.

The memory capacity of the MDT can be either approx. 2 KB, approx. 8 KB or approx. 32 KB. The three-color LED on the MDT displays OK data transfers and transfer errors. The MDT complies to the IP68 protection class.

Scope of delivery: Incl. mounting kit
3 842 529 237.

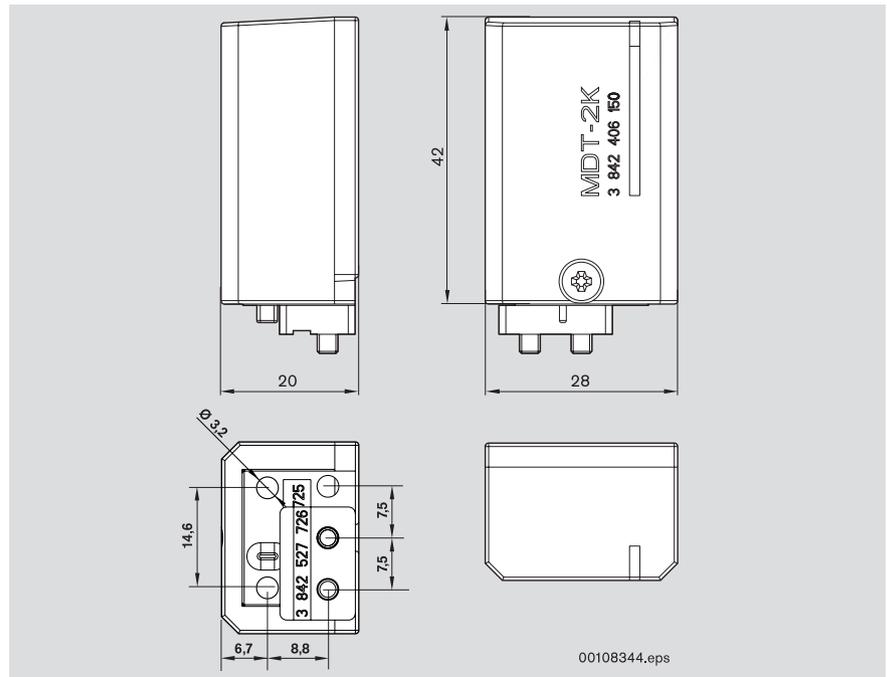
Optional accessories:
Assembly kits 3-5

Mobile data tag ID 40/MDT...

	No.
ID 40/MDT2K	3 842 406 150
ID 40/MDT32K	3 842 406 170



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Storage capacity

- MDT2K	1904 bytes
- MDT32K	30800 bytes
Data retention time	>10 years (20 to 40°C)
Data access	Byte-wise
Ambient temperature during operation	-25 to +70°C
Storage temperature	-25 to +85°C
Humidity	+5 to 95%
Protection class	IP68
Housing material	Polyamide, PA6
Resistance to media	Water, mineral oil; others on request
Mass	0.06 kg
Transmission direction	Front or left/right side
Read/write distance	
- Front	4 to 12 mm / 4 to 10 mm, static/dynamic
- Side	1 to 7 mm / 1 to 6 mm, static/dynamic
Permissible height offset between read/write station and MDT	+/- 5 mm
Status displays	LED, 3-color
Installation in metal	10 mm free space required on all sides



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