



The compact communicator PC3040/20DEZ is part of the PC3300 series in the OIS-P family. It is designed and built for continuous operation in the automotive industry where rapid data transfer and a high degree of reliability are required.

The unit is a replacement for the PC3040/00B and PC3040/01B. For the connectors there is a suitable adapter available.

The communication range is 0 – 1 m. The communicator reads and programs 10DEZ or 20DEZ formatted data tags in the PC3000 and PC3100 series.

All the electronics, including the processor, the antenna and the serial host interfaces, are built into a casing. This saves space and facilitates installation.

- OIS-P communicator with integrated antenna
- Serial host interfaces (RS232/422/485, TTY)
- Read-/write range: 0 – 1 m
- Reading and writing of 20DEZ and 10DEZ data tags
- Protocol and Interface compatible with PC3040/00B & 01B

About the OIS-P Auto-ID System in General

Communication Range

Using appropriate antennas this data tag provides a communication range of up to 10 m, as well as an excellent reading and writing capability with fast moving objects.

Long Battery Lifetime

The OIS-P technology maximizes the battery lifetime. The data tag is of a semi-active type, normally held in a passive state. Battery lifetime typically exceeds 5 years.

Data Tags for Every Use

A variety of data tags are available for various applications with memory sizes of up to 32 Kbytes. They differ in read/write range, memory sizes and housing designs.

Fast Data Transfer Rate Unlimited Memory Life

The RAM memory design allows an unlimited number of read-write cycles while enabling high data transmission rates. This also gives the opportunity for identification of fast moving objects. The user data is backed up by a lithium battery.

Connection Guaranteed

The central units and compact communicators are off-the-shelf available with several interfaces like Profibus and Ethernet. Other interfaces are available on request.

Heat-Resistant Data Tags

Heat-resistant data tags are applicable for temperatures up to 235 °C cyclic.

IDENTEC SOLUTIONS

IDENTEC SOLUTIONS is a leading global supplier of innovative RFID systems (Radio Frequency Identification) with communication ranges of up to 100 metres.

With its unique Intelligent Long Range® (ILR®) technology, IDENTEC SOLUTIONS offers innovative and economical solutions for automated data gathering, identification, tracking, and localization of objects.

The OIS product range offers automatic identification systems of different technologies, suitable for operation in the rough environment as in industry and logistics while providing high reliability. OIS transponders are equipped with up to 32 kBytes of memory and can withstand up to 235 °C.

To learn more about how ILR and OIS technology can increase the efficiency of your business, contact IDENTEC SOLUTIONS or visit our website at www.identecsolutions.com.

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WARNING:
Changes or modifications not expressly approved by manufacturer could void the user's authority to operate the equipment.

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Technical Data

Operation Data

Compatibility

Compatible with all data tags formatted for 10DEZ or 20DEZ. Data tags of series PC3001/xx and PC3100 (old and new types) and PC3404/L8A-20DEZ. Mixed use is possible. 10/20DEZ formatted data tags of PC3000 series (e.g. PC3004/22A, PC3005/xx).

Status information

Status information is available via the service terminal, and the front panel LEDs. Furthermore they can be read from the host computer.

Communication range:

0 – 2 m

RF Emission

max. 10 mW EIRP @ 2.45 GHz

Communication speed

depending on the type of tag less than 645 ms

Protocol to Host/PLC

ZIOX16, Firmware: ZIOX16_42

Order Code

148 194

Mechanical data

Casing

Aluminum, light grey, with plastic cover

Weight

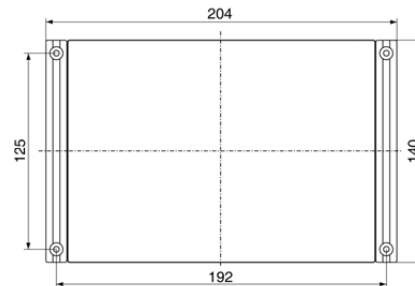
1.5 kg

Dimensions

204 × 140 × 85 mm (W × H × D)

Mounting proposal

4 holes for screws M4, pls. see drawing



Interfaces/connectors

Combined connector

(15 pin D type plug)

- Power supply, 24 VDC ±20 %, max. 8 W
- Service terminal (RS232, 19'200 Bit/s, not opto-isolated)
- 2 inputs (Object Detect, Reset Timeout, opto-isolated**)
- 1 output (Timeout Error, 24 V, DC isolated**)

Host computer/PLC

(15 pin D type socket)

- RS 232 / 422 / 485 (1,2 / 2,4 / 4,8 / 9,6 kbs, DC isolated**)
- TTY/Current loop (passive, 4,8 / 9,6 kbs, opto-isolated)

*** For replacement with a PC3040 there is an adapter available – PC3040/CL-Y, order code: 100 612. If this adapter from 2 × 15 pin to 1 × 25 pin D type is used power supply, signals and host interfaces are not DC isolated.*

Environmental conditions

Temperature range

-40 to +70 °C (storage), 0 to +50 °C (operating)

Protection class

IP65, Ref. IEC 529

Vibration

EN60721-3-3 class 3M2

EMC

Complies with the R & TTE 99/5/EC directive*

All values are specified at 20 °C, unless otherwise noted.

* R & TTE – Radio and telecommunications terminal equipment

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