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1 Introduction

1.1 Symbols and illustrations

Warning notices

In these instructions, warning notices are used to warn against material damage and injuries.

- ▶ Always read and follow these warnings.
- ▶ Observe all the measures that are marked with the warning symbol and signal word.

Warning symbol	Warning	Meaning
	DANGER	Danger to persons. Non-compliance will result in death or serious injuries.
	WARNING	Danger to persons. Non-compliance can result in death or serious injuries.
	CAUTION	Danger to persons. Non-compliance can result in minor injuries.

Further symbols and means of representation

Important information and technical notes are highlighted to explain correct operation.

Symbol	Meaning
	means "important note" Information to prevent property damage, to understand or optimise the operation sequences.
	means "additional information"

1.2 Reference documents

Type	Name	Material no.
User manual	myGEZE Control	207492

2 Module types

Pre-defined module types are used to display data for the GEZE product systems.

A defined set of BACnet data points (BACnet objects) is determined for a product or product combination based on these types.

This defined set should be considered essentially as a digital maximum configuration. You can use all of them, but you can also use only a selection of them.

These data sets have a specific technical addressing that is always exactly the same and that counts up based on a saved formula using an address in an instantiated manner.

This technical addressing is decoupled between the fieldbus system and BACnet so that the addresses are not changed, for instance, if there are changes to the bus structure or wiring in the construction project. This allows for very simple application in the system integration.

Technical type	What	Max. possible data points
Controller system	Virtual data points for global controller functions	10...x
TZ320	Emergency exit control, emergency exit system	13
DCU	Automatic drives for swing, sliding and revolving doors	14
DCU + TZ	Combination of automatic drives + emergency exit control	22
DOOR	Manual door systems	7
MBZ	Smoke and heat extraction systems type MBZ300 in different versions	20...y
IQBOX KNX	KNX Windowdrive	8
KNX Common	KNX general data	4
DI/DO	List of product-neutral inputs and outputs	1...z
HOLD	Combination for hold-open system data	3

x = for instance number of configured time programs, alarm objects

y = depending on the number of modules installed in the MBZ 300

z = number of inputs and outputs

3 Overview of module-specific data points

3.1 Controller system

The controller system offers the option of providing global functions for the overall device. In addition to several objects that are always present based on system requirements, like the device object itself, these are virtual data points that are necessary for an overarching function in the controller.

Scenes and timer functions

The system provides the possibility of defining functional scenes. With these scenes, switching functions which are to take place together can be grouped. A wide range of different commands with different functions can be compiled.

These scenes can then be triggered directly via a group switch data point (Multistate Value). In addition, an automatic time-dependent function can be stored by configuring a BACnet schedule.

Data points

Type/object	Function
Switching data point (Multistate Value)	Direct release by control of the corresponding action level. The switching data point is linked internally directly with the associated schedule object.
Schedule	BACnet timer object over which time-based switching actions run automatically.
Calendar	Date-based exceptions for the schedules. These override the normal timer function.

These data points are defined in coordination with the customer/system operator and can occur multiple times in the control unit.

Alarm functions

The controller system offers the option of an alarm by the BACnet functional service **Intrinsic Reporting**. This is done via different notification objects, so-called **Notification Class** objects. These objects can be defined or adjusted in the control unit.

Default setting

Type/object	Function
Notification_Class-50	Alarms
Notification_Class-60	Faults
Notification_Class-70	Maintenance
Notification_Class-80	Message
Notification_Class-90	Counting

As a default, the alarm classes are defined as shown in the table above, and the individual data points are assigned to individual classes according to their function.

Example: A fire alarm from an automatic drive is reported via the **Notification Class 50**.

This configuration can be defined in coordination with the customer/system operator.

Up to 20 notification classes are possible.

3.2 Module TZ: Emergency exit control, emergency exit systems

Possible devices

- ▶ Door control units TZ320, TZ321, TZ322
 - ▶ Locking element (FTV320, MA500, FTÖ)
 - ▶ Door terminal (T320)

Data points

The data point **Operating status** (BACnet object type: **Multistate Value**) is used to transmit the possible operating statuses of the system, collected as a multi-stage data point. The operating statuses listed are saved in the stage texts.

Operating statuses	Explanation
Unlocked	Unlocked by key operated button or remote command.
Unlocked timer	Unlocked by timer input signal.
Locked	Locked by key operated button or remote command.
Locked by burglar alarm system	Locked by input signal from a burglar alarm system.
Short-time release	Short-time release by key operated button or remote command. System is unlocked for the set time or until the end of access and then locks again automatically.
Service mode active	System is in service mode for configuration.
Alarm active	There is at least one alarm in the system; such as a door alarm, sabotage, release
Fault	System has a fault; e.g. locking error, defective fuse
Active security interlocking door system	Control unit is an active part of an interlocking door system
Passive interlocking door system	Control unit is a passive part of an interlocking door system
Interlocking door system occupied	Control unit currently bringing persons through an interlocking door system.

Messages and alarms are transmitted individually via multiple binary data points (BACnet object type: **Binary Value**). Each entry in the table corresponds to one data point.

Message/data point	Explanation
Door status	Feedback from the contact of the built-in locking element: CLOSED/OPEN
Locking status	Bolt feedback from the contact of the built-in locking element: locked, unlocked
Release emergency push button	Activation of the red emergency push button directly on the system.
Emergency unlocking	Emergency unlocking is unlocking the door via a fire alarm system or smoke and heat extraction system or via the GEZE bus.
Door alarm	The door alarm is triggered if the door is not closed after the end of the pre-alarm time.
Sabotage contact TZ, TT, clamping box	The sabotage alarm is triggered if the housing of a system component is opened.
CAN bus fault	Disrupted connection to myGEZE Control. Data point triggers if a CAN address is programmed, but there is no bus connection.
Relay error	Relay error due to short circuit, sticking relay or reversed polarity.
Error on the locking element	Locking element unlocked or not locked after a specified activation.
Communication disruption with the door terminal or clamping box	Connection between the door control unit-door terminal-clamping box components is disrupted.
Count value number of door openings	Count of state transitions between door status CLOSED/OPEN.
External fault	Display of the signal from the configurable input, external fault

Control commands can be sent to the system via a data point **Switch Object** (BACnet object type: **Multistate Value**). BACnet is activated by specifying the step value.

Step value	Command	Explanation
1	No command	After executing an activation, the data point automatically returns to this value.
2	Unlock	Sustained unlocking of the door control unit.
3	Lock	Sustained locking of the door control unit.
4	Short-time release	One-time short-time release according to the parameters set for hold-open in the door control unit.

Functionality

Activation, for instance on step value 2 for unlocking. The control unit executes the command, and feedback on successful execution is delivered via the data point **mode of operation**. The switching object goes back to a step value of 1.

3.3 DCU

Possible devices

- ▶ DCU1
- ▶ DCU2
- ▶ DCU6
- ▶ DCU8

Data points

The data point **Operating status** (BACnet object type: **Multistate Value**) is used to transmit the possible operating statuses of the system, collected as a multi-stage data point. The operating statuses listed are saved in the stage texts.

Operating statuses	Explanation
Automatic	Automatic mode: The connected sensors are active and the system opens and closes automatically.
Night mode	Night mode: The connected sensors are deactivated. The system does not open and close automatically.
Exit only	The connected sensors on the inside of the door are active. The connected sensors on the outside of the door are deactivated. Automated passage is possible only in the Outside direction
Hold open	System is continuously open.
Timer active	The mode of operation of the system is specified by a timer at one or more input contacts (NA, LS, AU, DO). The input is configured as the timer in this case.
Fire alarm active	There is a fire alarm, reported by a corresponding input. Depending on the setting, the drive and door system are decoupled and the door closed via spring load.
DCU not initialised	The control unit of the drive is not configured. A technician is required to configure the system.
DCU disrupted	There is a defect or a fault on the control unit of the drive. A technician is required to correct the error.
Smoke alarm	There is a smoke alarm, reported by a built-in smoke switch control unit. Depending on the setting, the drive and door system are decoupled and the door closed via spring load.
Active security interlocking door system	Control unit is an active part of an interlocking door system
Passive interlocking door system	Control unit is a passive part of an interlocking door system
Interlocking door system occupied	Control unit currently bringing persons through an interlocking door system.
Drive switched out of operation	

Messages and alarms are transmitted individually via multiple binary data points (BACnet object type: **Binary Value**). Each entry in the table corresponds to one data point.

For control types (DCU1, DCU2, DCU8) of swing and sliding doors

Message/data point	Explanation
Door status	Feedback from the contact of the built-in locking element: CLOSED/OPEN
Locking status	Bolt feedback from the contact of the built-in locking element: locked, unlocked
Motor gear unit brake	Feedback from the motor brake to the locking mechanism of the door. Note: Only for DCU1.
Mode of operation selection locked	Specification of a mode of operation selection is locked for this drive (only door type EMD).
CAN bus fault	Disrupted connection to myGEZE Control. Data point triggers if a CAN address is programmed, but there is no bus connection.
Maintenance	Evaluation of the maintenance-related fault codes transmitted by the drive.
System fault	Evaluation of the fault codes transmitted by the drive. System faults that do not directly lead to a failure: display programme switch not connected, continuous activation
Technical fault	Analysis of fault codes transmitted by the drive: Technical faults that could lead to a failure.
Alarm	Analysis of fault codes transmitted by the drive: Direct hazard alerts (fire).
Opening width	Display of the percentage opening widths.
Count value number of door openings	Count of state transitions between door status CLOSED/OPEN.

For the following control types for revolving doors (DCU 6): TSA 325 and Revo.PRIME

Message/data point	Explanation
Door status	Feedback from leaf: in end position, in rotation
Locking status	Bolt feedback from the contact of the built-in locking element: locked, unlocked
Mode of operation selection locked	Specification of a mode of operation selection is locked for this drive (only door type EMD).
CAN bus fault	Disrupted connection to myGEZE Control. Data point triggers if a CAN address is programmed, but there is no bus connection.
Maintenance	Evaluation of the maintenance-related fault codes transmitted by the drive.
System fault	Evaluation of the fault codes transmitted by the drive. System faults that do not directly lead to a failure: display programme switch not connected, continuous activation
Technical fault	Evaluation of the fault codes transmitted by the drive: Technical defects that can result in an outage.
Alarm	Evaluation of the fault codes transmitted by the drive: Direct danger alarms (fire, smoke).
Opening width	- not relevant for revolving doors
Count value number of door openings	- not relevant for revolving doors

The function of the data points for evaluating the fault codes of a drive system is explained separately once again in the following section.

Control commands

Control commands for setting the mode of operation can be sent to the system via a 'Switch Object' data point (BACnet object type: **Multistate Value**). BACnet is activated by specifying the step value.

Feedback on the system state is delivered via the data point **Operating status** (BACnet object type: **Multistate Value**). The meanings of the individual stages are described in more detail there.

Step value	Command	Explanation
1	No command	After executing an activation, the data point automatically returns to this value.
2	Night mode	Night mode
3	Exit only	Exit only
4	Automatic	Automatic
3	Hold open	Hold open
4	Switch drive off	The drive is switched off. A door can be manually opened/closed, depending on the system version.

Commands for a single opening can be sent to the system via the data point **Door opening** (BACnet object type: **Multistate Value**). BACnet is activated by specifying the step value.

Type	Step value	Command	Explanation
19	1	Inactive	After executing an activation, the data point automatically returns to this value.
	2	Door opening	Activation of contact type KB (contact authorised).

The data point **Reduced opening width** (BACnet object type: **Multistate Value**) can be used to send commands to the system for switching between summer and winter modes. BACnet is activated by specifying the step value.

Step value	Command	Explanation
0	Summer mode	Complete opening width
1	Winter mode	Reduced opening width

Data points for evaluating the fault codes

If an incident occurs, the GEZE automatic drives deliver up to 80 messages, which are output via a fault code. This fault code contains information for different reasons. It is divided into the following four data points during transmission to BACnet data points:

Maintenance	Maintenance messages
System fault	Errors on the system that do not directly result in an outage.
Technical fault	Technical defects that can result in an outage.
Alarm	Direct danger alarms

The division is defined in the control unit system.

If an incident occurs, the assigned digital BACnet data point becomes active. The operator receives a message in their system, such as "Technical fault"

The exact fault which caused the incident is indicated via the BACnet property "event-message-text".

Example: 24 V fault (1)

The exact reason for the fault is displayed in clear text, as well as via a fault code number. The fault code number corresponds to the display on an installed display programme switch DPS.

If further technical faults occur on the system, these are also displayed. The control unit system can display up to ten different fault codes at the same time.

The output of fault reasons and fault codes can differ, depending on the drive type.

3.4 DCU+TZ

Possible devices

- ▶ Slimdrive EMD
- ▶ Slimdrive SL
- ▶ Powerturn
- ▶ TZ320, TZ321, TZ322

Data points

The data point **DCU operating status** is used to transmit the possible operating statuses of the system collected as a multi-stage data point. The operating statuses listed are saved in the stage texts.

The explanation of operating statuses is identical to the DCU type. See 3.3 DCU.

The data point RWS operating status is used to transmit the possible operating statuses of the system collected as a multi-stage data point. The operating statuses listed are saved in the stage texts.

The explanation of operating statuses is identical to the RWS type. See 3.2 Module TZ: Emergency exit control, emergency exit systems.

Control commands

The commands are identical to the DCU type. See 3.3 DCU.

Messages and alarms are transmitted individually via multiple binary data points (BACnet object type: **Binary Value**). Each entry in the table corresponds to one data point.

Message/data point	Explanation
Door status	Feedback from the contact of the built-in locking element: CLOSED/OPEN
Locking status	Bolt feedback from the contact of the built-in locking element: locked, unlocked
Motor gear unit brake	Feedback from the motor brake to the door locking mechanism (DCU1 only).
Mode of operation selection locked	Specification of a mode of operation selection is locked for this drive (only door type EMD).
Release emergency push button	Activation of the red emergency push button directly on the system.
Emergency unlocking	Emergency unlocking is unlocking the door via a fire alarm system, a smoke and heat extraction system or via the GEZE bus.
Door alarm	The door alarm is triggered if the door is not closed after the end of the pre-alarm time.
Sabotage contact TZ, TT, clamping box	The sabotage alarm is triggered if the housing of a system component is opened.
Relay error	Relay error due to short circuit, sticking relay or reversed polarity.
Error on the locking element	Locking element unlocked or not locked after a specified activation.
Communication disruption with the door terminal or clamping box	Connection between the door control unit-door terminal-clamping box components is disrupted.
CAN bus fault	Disrupted connection to myGEZE Control. Data point triggers if a CAN address is programmed, but there is no bus connection.
Maintenance	Evaluation of the maintenance-related fault codes transmitted by the drive.
System fault	Evaluation of the fault codes transmitted by the drive.
Technical fault	Evaluation of the fault codes transmitted by the drive.
Alarm	Evaluation of the fault codes transmitted by the drive.
Opening width	Display of the percentage opening widths.
Count value number of door openings	Count of state transitions between door status CLOSED/OPEN.

Data points for evaluating the fault codes

The data points for evaluating the fault codes are identical to the DCU type. See 3.3 DCU.

3.5 Door

The door monitoring is connected to the building automation and control system for doors with no automatic GEZE drive system attached and which are opened manually.

Data points

Messages and alarms are transmitted individually via multiple binary data points (BACnet object type: **Binary Value**). Each entry in the table corresponds to one data point.

Operating statuses	Explanation
Door status	Feedback from the contact of the built-in locking element: CLOSED/OPEN
Locking status	Bolt feedback from the contact of the built-in locking element: locked, unlocked
Door alarm	The door alarm is triggered if the door is not closed after the end of the pre-alarm time.
Count value number of door openings	Count of state transitions between door status CLOSED/OPEN.
Internal status of the output signal	Display of the internal setpoint state of the switching state. The levels correspond to the actual internal state of the system. While the door command returns to the value '1' after execution, this data point remains in the last commanded state.

Commands to open the door can be sent to the system via the data point **Door Control** (BACnet object type: **Multistate Value**). BACnet is activated by specifying the step value.

Step value	Command	Explanation
1	No command	After executing an activation, the data point automatically returns to this value.
2	Unlock	Sustained unlocking of the door control unit.
3	Lock	Sustained locking of the door control unit.
4	Short-time release	One-time short-time release according to the parameters set for hold-open in the door control unit.

The data point **Internal state** (BACnet object type: **Multistate Value**) displays the current switching state at the output.

Step value	Display	Explanation
1	-	-
2	Unlocked	Sustained unlocking of the door control unit.
3	Locked	Sustained locking of the door control unit.
4	Short-term released	One-time short-time release according to the parameters set for hold-open in the door control unit.

The data point **Short-time release duration** (BACnet object type: **Analogue Value**) can be used to transmit the duration of the KZF opening command to the system.

Value	Command	Explanation
0	Short-time release duration	Range: 0...200 sec

The **Alarm delay** data point (BACnet object type: **Analogue Value**) can be used to transmit the time until an alarm is released to the system.

Value	Command	Explanation
0	Alarm delay	Range: 30...300 sec

3.6 MBZ

A modular MBZ consists of different internal functional modules. In some cases, multiples of the same module are installed. The MBZ type is divided into different modules in order to reflect this modular design.

MBZ.PM	MBZ300 Power module
MBZ.CM	MBZ300 Control module
MBZ.SM	MBZ300 Control module for other fire sections
MBZ.DM	MBZ300 Drive module
MBZ.WM	MBZ300 weather module

3.6.1 MBZ.PM

Messages and alarms are transmitted individually via multiple binary data points (BACnet object type: **Binary Value**). Each entry in the table corresponds to one data point.

Message/data point	Explanation
Battery operation	Indicates that the system is in battery operation, e.g. there is no supply voltage.
Battery test	Rechargeable battery / battery test in progress
System voltage fault	Error in the internal system voltage.
Battery fault	Rechargeable battery fault

3.6.2 MBZ.CM/SM

Messages and alarms are transmitted individually via multiple binary data points (BACnet object type: **Binary Value**). Each entry in the table corresponds to one data point.

Message/data point	Explanation
Smoke alarm	Triggering of a smoke detector connected to the module.
Triggering detector 1	
Triggering detector 2	
Triggering alarm button	Triggering of an SHEV button connected to the module.
Fault detection line	The detection lines on the module are monitored actively.
System fault	If a line is interrupted, a notification is output here.
Signalling relay triggered	
Configuration error	A signalling relay can be used to provide an outstanding alarm as a potential-free contact for other systems.
CAN bus fault	Disrupted connection to myGEZE Control. Data point triggers if a CAN address is programmed, but there is no bus connection.

3.6.3 MBZ.DM

Messages and alarms are transmitted individually via multiple data points (BACnet object type: **Multistate Value/Binary Value**). Each entry in the table corresponds to one data point.

Message/data point	Explanation
Window status	Reports the current status of the window: 2 = open 3 = closed 4 = alarm 5 = closing
Smoke alarm	Triggering of a smoke detector connected to the module.
Drive module fault	The connection to the connected drive is actively monitored.
Number of window openings	If the module detects an interruption, a notification is output.
Configurable input 1	Transfer of data information from free input 1 on the drive module
Configurable input 2	Transfer of data information from free input 2 on the drive module

Control commands for activation of the system can be transmitted via the data point **Window movement command** (BACnet object type: **Multistate Value**). BACnet is activated by specifying the step value.

Step value	Command	Explanation
1	No command	After executing an activation, the data point automatically returns to this value.
2	Open	Drive moves in the opening direction.
3	Close	Drive moves in the closing direction.
4	Stop	Drive stops

3.6.4 MBZ.WM

Message/data point	Explanation
Wind alarm	The module evaluates the wind sensor connected to the input. If the set limit value is exceeded, a notification is output here.
Rain alarm	The connected rain sensor detects precipitation.

3.7 IQBOX KNX

Possible devices

- ▶ GEZE IQ window drives over IQ Box KNX
 - ▶ Slimchain
 - ▶ Powerchain
 - ▶ F1200+
 - ▶ Locking system

Data points

Messages and alarms are transmitted individually via multiple data points (BACnet object type: **Multistate Value/Binary Value**). Each entry in the table corresponds to one data point.

Message/data point	Explanation
Current position	Display of the current position of the drive, as a percentage of the max. possible stroke.
Closed	Drive reports closed.
open	Drive reports open.
Drive maintenance	Drive reports maintenance.
Drive fault	Drive reports a fault.

Control commands

The desired opening of the drive can be specified via the data point **Window Setpoint** (BACnet object type: **Analogue Value**).

Department	Command	Explanation
0...100%	Target position	Specification for the desired opening of the drive, as a percentage of the max. possible stroke.

The data point **Speed** for the next movement (BACnet object type: **Analogue Value**) can be used to specify the desired speed for the drive's next movement.

Department	Command	Explanation
0...100%	Speed	Specification for the desired speed of the drive, as a percentage of the max. possible speed.

The data point **Automatic Lock** (BACnet object type: **Binary Value**) is blocked to prevent the drive from responding to automatic activation signals from KNX.

Step value	Command	Explanation
0	Release	The drive is released.
1	Block	The drive is blocked.

3.8 KNX Common

If the KNX interface of the control unit system and therefore of GEZE IQ window drives is connected to the overall KNX system of the building, then control notifications from the KNX system can be used for the window. These global data points can be integrated into myGEZE Control.

Data points

Message/data point	Explanation
Alarm - Safety	KNX system reports a general data point Safety .
Alarm value wind speed	KNX transfers the set threshold for triggering a wind alarm.
Alarm - Wind	KNX reports a wind alarm.
Alarm - Rain	KNX reports a rain alarm.

These data points can be used to control – primarily to close – the window systems. The information is displayed here in the system as non-controllable input information.

3.9 DI/DO

The control unit system can connect non bus-capable devices via digital input and output terminals and the resulting information is shown via binary BACnet data points.

Examples

- ▶ EC Turn
- ▶ TSA 160
- ▶ Staircase control panel
- ▶ Hold-open systems
- ▶ IQ lock
- ▶ 24VDC signals (such as a reed contact for the door notification)
- ▶ Third-party products from other competitors

Digital input data point

The data point is provided as information to a BACnet system.

Step value	Command	Explanation
0	Off	
1	On	For example Message: Smoke alarm from a fire door holder.

Digital output data point

The data point can be controlled by a BACnet system. BACnet is activated by specifying the step value.

From template version 3.0 onwards, a time for a trigger pulse can be specified for the activation of the output. This causes the output to be automatically pulsed and reset once the time has elapsed.

Step value	Command	Explanation
0	Off	
1	On	For example Activation for the release of a hold-open system.

The 'Duration Trigger' data point (BACnet object type: Analogue Value) can be used to transmit the activation time to the system.

Step value	Command	Explanation
0	Permanent activation; no trigger	
1...200 sec	Duration of trigger pulse	

3.10 HOLD hold-open system

The controller system can connect non-bus-capable devices via digital input and output terminals. The resulting information for a hold-open system is summarised via the HOLD module type.

HOLD module type is available from template version 2.0.

Data points

The door message and triggering of the smoke switch control unit are transmitted individually via two binary data points (BACnet object type: **Binary Value**). Each entry in the table corresponds to one data point.

Operating statuses	Explanation
Door status	Feedback from the contact of an installed status contact CLOSED/OPEN
Alarm	Triggering of the smoke switch control unit Inactive / alarm

The data point **Release Command** (BACnet object type: **Multistate Value**) can be used to transmit commands to close the door system.

BACnet is activated by specifying the step value.

Step value	Command	Explanation
1	No command	After executing an activation, the data point automatically returns to this value.
2	Close	A pulse is generated at the digital output, which triggers the door closer. The pulse interrupts the power supply to the built-in hold-open element and the door is closed via the mechanical door closer.

4 Compatible products

4.1 Automatic drives

Product	DCU boards	Hardware	Software	Module type	Connection over	Condition
ECturn	DCU 7			DOOR	Inputs and outputs, use of the input and output contacts	No exit only. No events and error messages
ECturn Inside	DCU 7-I			DOOR	Inputs and outputs, use of the input and output contacts	No exit only. No events and error messages
Slimdrive EMD	DCU 2			DOOR	Inputs and outputs, use of the input and output contacts	
	DCU 2	Rev. B	from V 1.5	DCU 1.2 and 8	CAN Bus	with additional DCU board CAN/CAN interface
Slimdrive EMD-F, Slimdrive EMD-F-IS, Slimdrive EMD-F/R and F/R-IS	DCU 2-F			DOOR	Inputs and outputs, use of the input and output contacts	No events and error messages
	DCU 2-F	Rev. B	from V 1.5	DCU 1.2 and 8	CAN Bus	with additional DCU board CAN/CAN interface
Slimdrive EMD Invers	DCU 2-I	Rev. B	from V 1.5	DCU 1.2 and 8	CAN Bus	with additional DCU board CAN/CAN interface
	DCU 2-I			DOOR	Inputs and outputs, use of the input and output contacts	No events and error messages
Powerturn, Powerturn F and F-IS, Powerturn F/R and F/R-IS	DCU 8	from Rev F	from V 1.8	DCU 1.2 and 8	CAN Bus	with additional DCU board CAN/CAN interface
	DCU 8			DOOR	Inputs and outputs, use of the input and output contacts	No events and error messages

TSA 160 NT, TSA 160 NT-IS	DCU 5			DOOR	Use via additional cam switch or inputs, has no outputs	No events and error messages
TSA 160 NT F, TSA 160 NT F-IS	DCU 5-F			DOOR	Use via additional cam switch or in- puts, has no out- puts	No events and error messages
Revolving door TSA 325 NT Revo.PRIME	DCU 6			DOOR	Inputs and outputs, use of the input and output contacts	No events and error messages
	DCU 6	Rev. C	from V3.1	DCU 6	CAN Bus	with additional DCU board CAN/CAN in- terface

Slimdrive SL NT and SL NT-FR Slimdrive SL and SL-FR RC2 Slimdrive SL-BO Slimdrive SL-RD Slimdrive SLT / SLT-FR Slimdrive SF / SF-FR curved sliding door SC / SC-FR / SCR-FR curved sliding door SC / SC-FR RC2 angled sliding door SLV / SLV-FR ECdrive / ECdrive-FR Powerdrive PL / PL-FR	DCU1-NT & DCU1-2M-NT	Rev. A	from version 4.0 onwards	DCU 1.2 and 8	CAN Bus	No night mode for FR variants (escape route) remotely, CAN BUS: with additional DCU board CAN/CAN interface
	DCU1 & DCU1-2M	from Rev. D	from version 2.0 onwards	DCU 1.2 and 8	CAN Bus	No night mode for FR variants (escape route) remotely, CAN BUS: with additional DCU board CAN/CAN interface
	DCU1-NT & DCU1-2M-NT			DOOR	Inputs and outputs, use of the input and output contacts	No night mode for FR variants (escape route) remotely. No events and error messages
	DCU1 & DCU1-2M			DOOR	Inputs and outputs, use of the input and output contacts	No night mode for FR variants (escape route) remotely. No events and error messages

4.2 RWS central units

Product	Hardware	Software	Module type	Connection over	Condition
TZ320, TZ321, TZ322	-	V1.1	TZ320	CAN Bus	Digital inputs and outputs on the IO420 expansion module are not usable as a data point on BACnet.

4.3 MBZ 300

Product	Hardware	Software	Module type	Connection over	Condition
MBZ300 N8...N72	-	CM module V1.0.5 (compatible with MBZ configuration software 3.0)	MBZ	CAN Bus (additional module required on CM module)	No mixing with other CAN devices on a bus line One CAN bus line with MBZ300 can be used per networking control unit A max. total of 250 MBZ modules can be connected, regardless of how many MBZs they are distributed over A max. of 24 modules can be connected per MBZ300

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