

A5 : 4BS Telegram

A5 - 30 : Digital Input Contact

RORG	A5	4BS Telegram
FUNC	30	Digital Input Contact
TYPE	06	Single Alternate Input Contact, Retransmission, Heartbeat

Submitter: ITEC Corporation

Description

Contact sensor with states open/close. (Heartbeat telegram also has status.)

Additionally, each telegram has index number, retransmission counter.

These items enable identification of event trigger and retransmission, contributing to improving redundancy.

The index field is incremented once per change in contact input state and wraps around to 0 after it reaches 7.

After a change in contact input state the device will transmit a number of redundant telegrams in a short time. These will all have their "Type" fields set to 0 because they are transmitted as a result of a change in contact state. The first of these telegrams will have a "Retransmission" field of 0; the second will have a "Retransmission" field of 1, and so forth.

Data exchange

Direction: unidirectional

Addressing: broadcast

Communication trigger: event_time_trigger

Communication interval: 300

Timing description: Retransmission, heartbeat

Teach-in

Teach-in method: 4BS teach in 2

Security

Encryption mandatory: No

Offset	Size	Bitrange	Data	Description	Valid Range	Scale	Unit	Trigger
0	16	DB 3 . 7 ...DB 2 . 0	Not Used (= 0)					
16	1	DB 1 . 7	contact	The state of the contact input	Enum: 0 : Open 1 : Close			X
17	3	DB 1 . 6 ...DB 1 . 4	Index	This field is incremented once each time the contact input changes state.	0 ... 7			
20	1	DB 1 . 3	Type	Indicates whether this telegram was transmitted as a result of a change in contact input state, or if it was transmitted as a result of the heartbeat timer.	Enum: 0 : Trigger event 1 : Heartbeat			
21	3	DB 1 . 2 ...DB 1 . 0	Retransmission	This field is incremented once for each redundant telegram that is transmitted as a result of a change of contact input state.	0 ... 7			
24	4	DB 0 . 7 ...DB	Not Used (= 0)					

		0 . 4				
28	1	DB 0 . 3	LrnBit	LrnBit key	Enum:	
					0 :	Teach-in telegram
					1 :	Data Telegram
29	3	DB 0 . 2 ...DB 0 . 0	Not Used (= 0)			