

Title (en)
BUS MODULE USED FOR CONTROLLING FLUIDIC VALVES

Title (de)
BUSMODUL ZUR STEUERUNG VON FLUIDIK-VENTILEN

Title (fr)
MODULE BUS PERMETTANT DE COMMANDER DES VALVES FLUIDIQUES

Publication
EP 1761710 B2 20120425 (DE)

Application
EP 05759256 A 20050611

Priority
• EP 2005006288 W 20050611
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Abstract (en)
[origin: WO2005124161A1] The invention relates to a bus module (15) comprising an electric circuit arrangement which evaluates address data and user data from data telegrams transmitted to the data bus (11) and which controls a fluidic valve (16) which is determined by address data and which corresponds to the user data of the data telegram. The aim of the invention is to maintain a low current load of the bus module, in particular during the control of hydraulic valves (16). After the reception of user data in the form of a switching command for a fluidic valve (16) connected to the bus module (15), the electronic circuit arrangement supplies, in a continuous manner, the fluidic valve (16) with a power supply voltage (Uv) which is determined by the address data during the time of interconnection having a predetermined duration. After completion of the interconnection time, the electronic circuit arrangement supplies the power supply voltage (Uv), in pulse width modulated form having a predetermined pulse- duty factor (T%), to the fluidic-valve (16). Only if the bus module (15) has received user data in the form of a disconnection command for the previously connected fluidic valve (16), the electronic circuit arrangement does not provide any more power supply voltage (Uv) to the fluidic-valve (16).

IPC 8 full level
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F15B 21/085 (2013.01 - EP US)

Citation (opposition)
Opponent :
• EP 1002961 B1 20040114 - BOSCH REXROTH AG [DE]
• DE 3415649 A1 19851107 - TIEFENBACH & CO DR H [DE]
• DE 19647215 A1 19970724 - FESTO KG [DE]
• DE 9219093 U1 19971016 - MANNESMANN AG [DE]

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DE102017222463A1; US11085553B2

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