

Identifikation System in M30 housing

... the simplest parallel read-only system for 8x8 bits



Identification Systems

The simplest parallel read-only system for 8×8 bits

The BIS C-60R-002-08P-05 system is designed for simple applications of the BIS C read/write system. It is configured as a read-only system and provides the 8×8 bits of information in parallel format without additional components. Code tags used are type BIS C-122, BIS C-103, BIS C-130, BIS C-117, BIS C-128 and BIS C-108.

Before a read operation can take place, the data carrier must be pre-programmed starting with address 0. A total of 8 bytes corresponding to 64 bits of user data can be programmed. Two bytes of check data per byte of user data are stored (inverted value of the user data). These are used for data integrity and are evaluated by the system. This means a total of 24 bytes are used on the data carrier.

When reading address 0, the first three bytes are read from the data carrier and processed.

If the check of the user and integrity data is positive, the 8 bits of user data contained in the first byte are provided on the parallel port, indicated by an active (high) "Data Valid" signal. If the reply is "Error" or "no codetag present", the "Data Valid" signal is (Low) inactive.

The integrated LED provides immediate information about the system status.

The stored information is sent to the existing outputs as soon as the code tag is within the active zone and the data check is positive.

To easily program the code tags a processor with serial port and Balluff 007 protocol are used. Programming is easy and fast using the free BIS007RW software downloadable from the Balluff Web site at www.balluff.de.

LED function indicator

	LED Status	Output "Data Valid"
No codetag	Off	Low
Codetag present	On	High
"Data check error"	Slowly flashing	Low
Short circuit on output	Rapidly flashing	Low

Read distances

Code tag type	Read distance	Allowed center offset (mm) at read distance			
		1 mm	3 mm	5 mm	7 mm
BIS C-122-04/L (Ø10)	0...2.5 mm	±2			
BIS C-103-05 (Ø12)	0...4.0 mm	±5	±3		
BIS C-130-05/L (Ø16)	1...8.0 mm	±7	±6	±4	±3
BIS C-128-05/L (Ø26)	0...5.0 mm	±2.5	±2.5		
BIS C-117-05/A (Ø30)	0...12.0 mm	±10	±10	±9	±9
BIS C-108-05	0...8.0 mm	±7	±7	±7	

Technical Data

Supply voltage	24 V DC +10/-20 % (incl. ripple)
Current	max. 300 mA
Output current per output	max. 50 mA
Voltage drop	≤ 1.5 V
Leakage current	≤ 0.08 mA
Working temperature	0...+50 °C
Enclosure rating	IP 67
Tightening torque	2 Nm
Mounting in steel	unshielded
Housing material	Nickel-plated brass/PA12
Cable	5 m, 10 m or 20 m, PUR, bending radius 50 mm

Interface Information BIS C-60R-002-08P

Wire assignments	Wire color
Supply voltage	+24 V DC WH 0 V DC pal BU
Input	AD 0 BN BK AD 1 RD BK AD 2 OG BK AD-COM YE BK
Output	Output Bit 0 BN Output Bit 1 RD Output Bit 2 OG Output Bit 3 YE Output Bit 4 GN Output Bit 5 BU Output Bit 6 VT Output Bit 7 GR Data Valid BK



For other informations see catalog, on CD-ROM or online!



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