ISOLETTE® drive BA11 – 300/500 24V DC

/ Technical data

Gear translation:	152:1
Idle speed (regulated):	20,4 min^{-1}
Overload torque:	46 Ncm
Operating temperature range:	-25°C...+85°C
Drive shaft:	Hexagon, SW 5mm
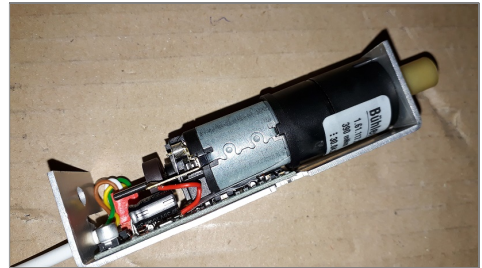
/ Electrical data

Input:	22V DC - 30V DC
Continuous load current (max.):	≤ 300mA
Torque off:	> 240mA
Switching current drive:	0,5 mA
Drive direction (standard):	right
Type:	Encoder Motor with self-referencing

/ Technical Data connenctions

Brown:	Supply voltage **+** (Plus)
White:	Supply voltage **–** (Minus)
Yellow:	DOWN Command
Green:	UP Command

/ Technical Data Resistors

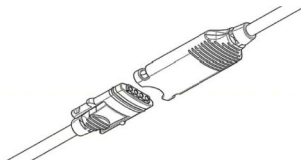|		
Yellow-Green:	116,0	KΩ
White-Green:	56,0	KΩ
White-Yellow:	56,0	KΩ
White-Brown:	1,0	**M**Ω
Green-Brown:	22,0	**M**Ω
Yellow-Brown:	5,6	**M**Ω

In order to read out the parameters via the PC interface, it may be necessary in the case of very long cable routes to connect a resistance of approx. 360 Ω between the yellow (DOWN) and white (minus) cables. (e.g. 3x120 Ω in series).

_Description

A constant 24 volt DC supply voltage to the drives is required for proper operation and use of all functional advantages of BA 11 systems. After a power failure or power interruption, the end position settings are restored by means of a reference run. The reference run is an automatic raising and retraction of the curtain to the upper end position and relieving the curtain by approx. 10mm. This happens about 3 seconds after an uninterruptible power supply returns. The reference run also takes place recurring approx. every 50 control or touch commands and the following UP-command. The reference run also compensates for any minimal skewing caused by temporary climate-related lengthening. It also serves to relieve the materials and thus the longevity of the system. The individual setting options are described below:

Bit 0   After a power failure or interruption, the end position settings are restored by an automatic reference run (Default ON).

Bit 1   In the case of large blinds, the upper end position is maintained by the constant supply voltage (Default ON).

Bit 2   Only for special applications in connection with 24 V DC adapter circuit board, 4-wire to 2-wire connection, or use of voltage converter 12 to 24 V DC (Default OFF).

Bit 3   Blinds relieve after retraction over max. current in the upper end position (refer. run) (Default ON).

Bit 4   Function of the 0 referencing in connection with bit 7 (cyclic referencing of the end positions). With bit 4 and bit 7, the end positions are adjusted in adjustable cyclical intervals by the 0 referencing (Default OFF).

Bit 5   Before moving into the upper end position, the motor reduces the blind speed to relieve the system. Speed and distance of the slow run adjustable. (Default ON).

Bit 6   The motor reduces the curtain speed before reaching the lower end position. Speed and distance of the slow run adjustable. (Default ON).

Bit 7   Function of the automatic adjustable cyclic end position referencing in connection with bit 4 (0 referencing). (Default ON).

Bit 8   Deactivation or activation of self-retaining (basic setting after 3 seconds self-retaining). Deactivation of self-locking, e.g. when the drives are controlled by EIB/KNX actuators (Default OFF).

Bit 9   Turning function after reaching the lower end position. Malpositions of individual slats can be regulated by turning the slat curtain once and for all. (Default ON).

All bit settings are programmable using the Isolette interface and motor software via the IP67 cable interface.