CDC-TW-0502-1-ACB

24 V DC



Performance features

- Can be used for openings for smoke exhaust; D+H Euro SHEV in accordance with EN 12101-2; and for daily ventilation
- With BSY+ motor and synchronised electronics controlled via microprocessor
- Low running noises thanks to the innovative acoustic decoupling of the drive components
- 2 drive chains for optimal power application to the sash
- Connection from either the left or the right side is possible (supply includes BUS signals)
- Time-controlled reversing when an obstacle is detected in the CLOSED direction (active closing edge protection)
- Available in all RAL colours
- Integrated ACB (Advanced Communication Bus) bus interface with Modbus RTU protocol
- The drive is integrated directly via open bus communication through the ACB (Advanced Communication Bus), e.g. in a building management system

Approvals / Certificates

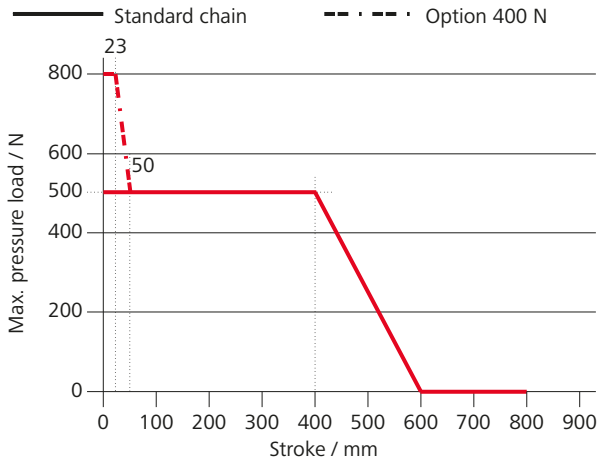
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Pressure load diagram



Technical data

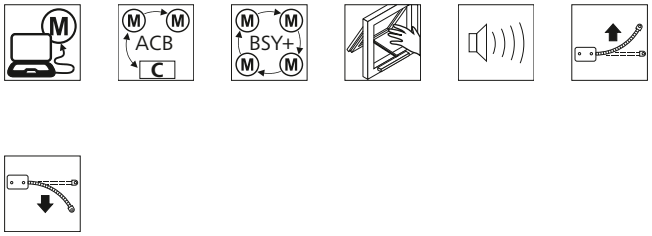
	CDC-TW-0502-0500-1-ACB	CDC-TW-0502-0800-1-ACB
Supply	24 V DC / ±15 % / 1.6 A	24 V DC / ±15 % / 2 A
Duty cycle	30 % (ON: 3 min. / OFF: 7 min.)	
Force of pressure	500 N	
Tensile force	500 N	
Nominal locking force	3000 N	
Service life	20000 double strokes *	
Stroke	350 - 800 mm	
OPEN running speed	6.7 mm/s	
OPEN running speed - SHEV	13.6 mm/s	15 mm/s
CLOSED running speed	6.7 mm/s	
Type of protection	IP 32	
Emission sound pressure level	LpA ≤ 35 dB(A)	
Temperature range	-5 °C ... +75 °C	
Fire resistance	B300 (30 min / 300 °C)	
Housing	Aluminium	
Surface	Powder-coated	
Colour	White aluminium (~ RAL 9006)	
Connection	2.5 m silicone cable	
W x H x D	1265 x 30 x 39 mm	
Weight	3.00 kg	

For an illustration of the dimensions, see the next page.
* For vertical use, please consult with D+H Sales!

CDC-TW-0502-1-ACB

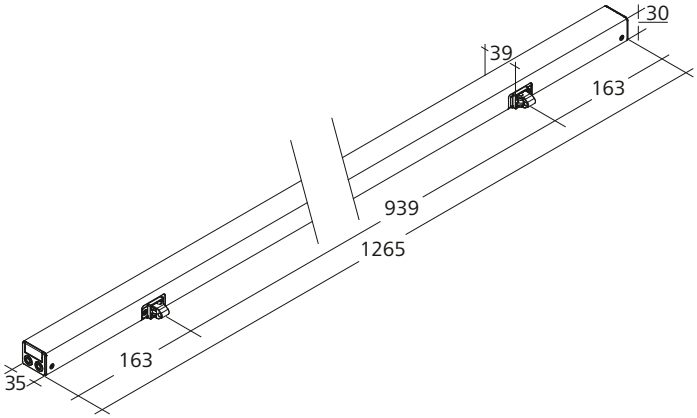
Potential drive options

You can find the explanations for the icons on the last page.



Dimensions

All specifications in mm



Design

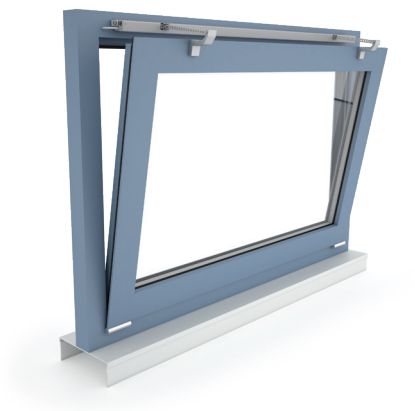
Type	Art. No.	Stroke	Remark
CDC-TW-0502-0500-1-ACB	26.103.20	500 mm	
CDC-TW-0502-0800-1-ACB	26.103.15	800 mm	
CDC-TW-1-ACB	26.103.00		Variable equipment possible

Brackets are not included and have to be ordered separately.

We reserve the right to make changes.
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Possible applications

Illustration provided as an example





- Mounted installation
- Sash mounting
- Frame mounting
- Application force
- Application tension



HS “High speed”

In the case of SHEV, the high-speed function is used for reliably reaching the defined end position in 60 s. In daily ventilation mode, the drive runs quietly and quickly, as usual.



Function programming

Option for customised configuring of drive parameters (e.g. stroke) via software and associated service tools for drives equipped with PLP, BSY or BSY+ electronics.



BRV signal

Acknowledgement from the drive, via a control cable, to confirm that it has been completely extended or retracted. When used with the AT 41 and ERM 44 modules, this signal is sent to the central building control system, the modules themselves, or to the locking drive. The BRV signal is not isolated.



ACB (Advanced Communication Bus)

Enables direct bus communication between the controller and the drive for, for example, control with perfect positioning or drive feedback. Communication is via the open source Modbus protocol, and it enables the drive to be combined with an ACB-capable control panel or enables it to be directly connected to higher-level controllers such as a building management system.



BSY+ (synchronisation of drives)

In addition to providing the same synchronisation function as BSY, BSY+ enables different components in the window to communicate with each other. For example, the chain drives, during synchronous operation, or the window and locking drives (e.g. FRA 11 BSY+ or VLD-BSY+).



SGI signal (position reporting)

In combination with the D+H servo plug-in unit SE 622 or the BSY-gateway BSY-GW-024-010-U, the drives can be controlled with perfect positioning.



SKS (closing edge protection)

Drive option, which enables an anti-trap strip or presence detector to be connected directly to the drive (terminal resistor 5.6 kΩ).



Audible signal (corresponding to protection class)

AS2 corresponding to “Protection class 2” in accordance with ZVEI risk assessment through an audible warning signal in the “CLOSED” running direction. AS3 corresponding to “Protection class 3” in accordance with ZVEI risk assessment, in addition to AS2, stops the drive for 11 s with a remaining stroke of 28 mm.



End position message (OPEN / CLOSED)

Drive feedback via an integrated isolated switching contact. This happens if the chain / rack and pinion has moved completely out or in.



SBD side bow chain

Drive chain with rigid backing, bends in the direction of the hinge. Drive is fixed in place (not rotatable).



SBU side bow chain

Drive chain with rigid backing, bends in the direction of the hinge. Drive is fixed in place (not rotatable).