

上海故得自动化设备有限公司



Type 8605 can be combined with...

Control Electronics for Solenoid Control Valves

- Microprocessor-controlled electronics
- Selectable input signal
- Adjustable PWM frequency
- Optional RS232 or RS485 interface



Type 8605

with operating unit combined with type 2873

without operating unit combined with type 2873

The digital control electronics, type 8605, serves to operate valves in the power range from 40 - 2000 mA.

The electronics converts an external standard signal into a pulse-width modulated (PWM) signal with which the opening of the valve and hence a fluidic output parameter (e.g. flow rate) can be infinitely varied. An internal current control with the duty cycle factor of the PWM signal as control variable ensures that every value of the input signal, irrespective of the thermal condition of the coil, is unambiguously assigned a given value of the effective coil current.

Compared to DC operation of solenoid control valves the PWM operation improves, among others, their sensitivity and hysteresis. A display and operating keys allow the electronics to be easily adapted to a particular solenoid control valve and to the concrete conditions of an application.

Technical data					
Operating voltage	12 - 24 V DC				
Voltage tolerance	±10 %				
Residual ripple	<5 %				
Power consumption	approx. 1 W (without valve)				
Output current (valve)	max. 2A				
Ambient temperature	-10 to 60°C				
Input signal	0-20 mA, 4-20mA or 0-5V, 0-10 V (configurable)				
Input impedance	<200 Ω (with current input) >20 kΩ (with voltage input)				
Output signal for valve control	PWM signal – frequency adjustable from 80Hz to 6 kHz				
Ramp function	Time variable from 0 to 10 s				
Version	Cable plug for direct installation (with PG- or M12 connection) DIN-rail version (DIN EN 50022)				
Protection class	Cable plug – IP65 DIN-rail – IP40				
Housing material	Cable plug - Polyamide / PC DIN-rail - Polyamide / PBT				



Functions of the controller Type 8605

- Microprocessor-controlled electronics
- Compensation of the solenoid coil heating by internal current control
- Configurable ramp function
- Adjustable zero point shutdown
- Display and buttons
- Selectable input signal
- RS232 or RS485 interface (with auxiliary module)
- Infinitely variable PWM frequency
- Simple adaptation of the minimum and maximum current (start of opening and full opening) to the actual pressure conditions

Ordering chart Control Electronics for Solenoid Control Valves

Version	Max. coil current [mA]	Item no.	2861, 2871 24 V DC	2861, 2871 12 V DC	2863, 2873 24 V DC	2863, 2873 12 V DC	2865, 2875 24 V DC	2865, 2875 12 V DC	2836 24 V DC	6024 24 V DC	6024 12 V DC	6223 24 V DC	6223 12 V DC
Cable plug with PG-connection	200 – 1000	178 354			Х	Х	Х			Х		Х	
Cable plug with M12-connection	200 – 1000	178 355			Х	х	Х			х		Х	
Cable plug with PG-connection	500 – 2000	178 356				х	х	х	х	х	х		х
Cable plug with M12-connection	500 – 2000	178 357				х	Х	х	х	х	х		х
Cable plug with PG-connection without operating unit	200 – 1000	178 358			Х	х	х			х		Х	
Cable plug with M12-connection without operating unit	200 – 1000	178 359			Х	х	Х			х		Х	
Cable plug with PG-connection without operating unit	500 – 2000	178 360				х	х	Х	х	х	х		х
Cable plug with M12-connection without operating unit	500 – 2000	178 361				х	х	Х	х	х	х		х
DIN-rail	40 – 220	178 362	Х										
DIN-rail	200 – 1000	178 363	х	х	х	х	х			х		х	
DIN-rail	500 – 2000	178 364				Х	Х	Х	Х	Х	Х		х

Notes:

- With two current ranges possible please choose the lower one
- Successor types:
- 2861, 2871 with 2822, 2824
- 2863, 2873 with 2833
- 2865, 2875 with 2835

When using the older type please choose the control electronics indicated for the adequate new type.

Ordering chart accessories

Version	Item no.						
Control unit for plug-on module	667 839						
RS232 module for plug-on	667 840						
RS485 module for plug-on	667 841						
RS232 module for DIN-rail	667 842						
RS485 module for DIN-rail	667 843						
Right-angle plug M12, 4 pins	784 301						
M12 connector with 5m cable, 4 pins	918 038						
M8 connector with 2m cable for RS232/ Rs485 plug-on module	918 718						
Cover (for control unit without display)	670 549						

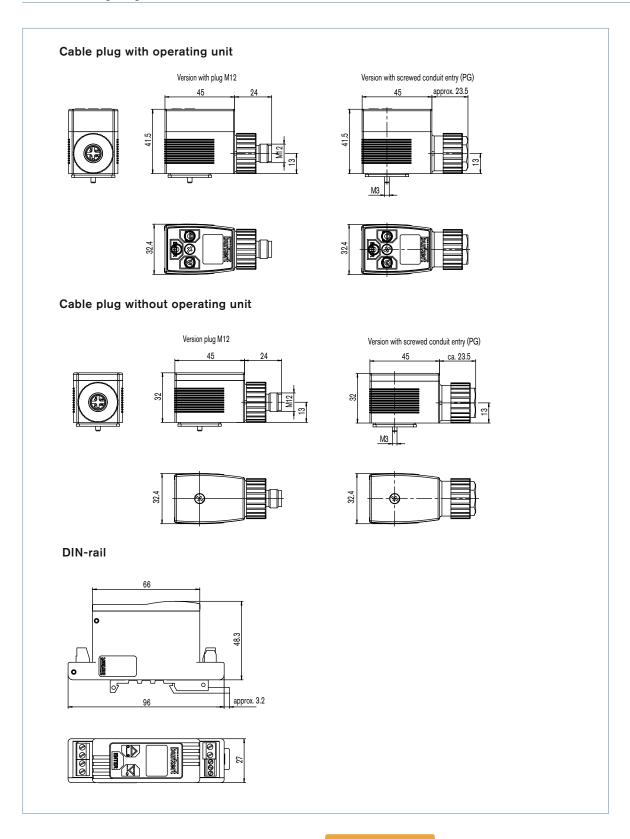


Pin Assignment

Cable plug PG Cable plug M12 2 DIN-rail 0 haylınd 0000 0 ENTER 0 0 1:+12-24 VDC 2:GND 3 : Standard signal GND 4 : Standard signal + 5 : Valve 6 : Valve 7: RS232 TxD/ RS485-B*) 8: RS232 RxD/ RS485-A*) 9 : DGND *) *) only with RS232 or RS485 auxiliary module



Dimensions [mm]



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In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.

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