

# ASCO™ Digital Control Unit

With integrated digital control electronics

G 1/8"

Series  
**908**

## Features and Benefits

- Converts analog input control signals to coil current of a proportional solenoid valve by means of pulse width modulation.
- LED-Display integrated in the connector.
- Adjustable UP/DOWN ramp control.
- Output coil current independent of coil resistance (temperature) and supply voltage variations.
- The electronic circuit is integrated in a standard housing according to DIN EN 175301-803, form A.
- Parameter setting via PC interface and programming adapter or, optionally, via the switches integrated in the connector.



## General

**Nominal voltage** 12/24 V DC  
**Maximum current** 1.2 A / 2.5 A

## Construction

**Housing** PA  
**Cover** PA  
**Screw** Zinc plated steel  
**Seals** NBR

## Electrical characteristics

**Connector** M12, 5 pins  
**Connector specification** DIN EN 175301-803, form A  
**Electrical safety** IEC 335  
**Electrical enclosure protection** IP65 (EN 60529)  
**Supply voltage** 12V ... 30 V DC (incl. ripple)

max. full load current (I <sub>R</sub> ) (mA)	input control signal		ambient temperature range (C°)
	U <sub>c</sub> = (V)	I <sub>c</sub> (mA)	
1200/2400	0 - 10	4 - 20	-20 to +65

**Ramp time** Selectable ON/OFF, adjustable from 50 ms to 5 s, UP/DOWN  
**Adjustable switch frequency** 60 - 1500 Hz

## Specifications

Catalogue number: Proportional valves for digital control unit	Type <sup>(1)</sup>	Setpoint	Catalogue number	
			Control unit	Adapter
202A001V, 202A087V and 202A513V (24 VDC) 203B001V and 203B002V 60200001, 60200002, 60200004	01	0 - 10 V	X90850164500100	-
		4 - 20 mA	X90850164500200	
202A201V to 202A208V, 202A513V (12 VDC) 202A510V to 202A513V	02	0 - 10 V	X90850164500100	+ 833-064154
		4 - 20 mA	X90850164500200	

<sup>(1)</sup> Refer to the dimensional drawings on the following page.


## Proportional valves suitable for control applications

Description	Series	Illustration
3-port proportional valve for pressure control	602	
Posiflow proportional solenoid valves	202 203	

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**Installation**

- The control unit can be mounted in any position without affecting operation

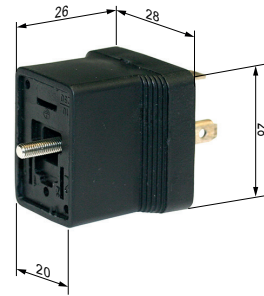
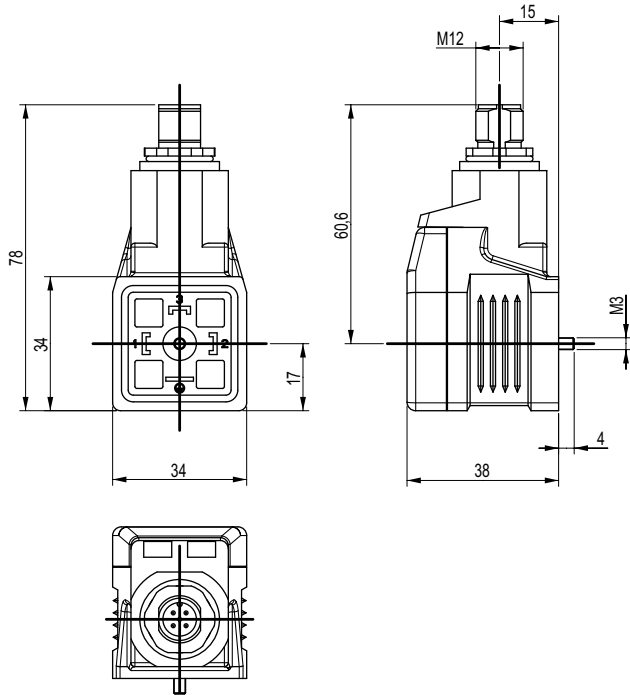
**Dimensions (mm), Weight (kg)** 



**TYPE 01: Control unit**  
0.075 kg



**TYPE 02: Adapter**  
from Form A to Form B



**Programming adapter**



**Input and output signals**

Pin	Supply
1	Voltage supply (see “Electrical Characteristics”)
3	Analog ground 0 V (GND)
<b>Analog signals</b>	
2 4	Setpoint input (differential input) The range 0...100% corresponds to an input voltage of 0...10 V or an input current of 4...20 mA (depending on version used)
<b>Communication</b>	
5	LIN Bus connection The parameters for the device can be set via this connection and our programming adapter

**Accessories**

Description	Catalog Number
Straight M12 female connector, 5 pins, with screw terminals	<b>88100256</b>
Right-angle M12 female connector, 5 pins, with screw terminals	<b>88100725</b>
Supply cable 2m, 2 x 0.25mm <sup>2</sup> , straight connector	<b>88100726</b>
Supply cable 2m, 2 x 0.25mm <sup>2</sup> , right-angle connector	<b>88100727</b>
Supply cable 5m, 6 x 0.56mm <sup>2</sup> , straight connector	<b>88100728</b>
Supply cable 5m, 6 x 0.56mm <sup>2</sup> , right-angle connector	<b>88100729</b>
Supply cable 10m, 6 x 0.56mm <sup>2</sup> , straight connector	<b>88100730</b>
Supply cable 10m, 6 x 0.56mm <sup>2</sup> , right-angle connector	<b>88100731</b>
Adapter DIN EN 175301-803 from form A to form B for Type 02	<b>833-064154</b>
Programming adapter	<b>X90850164500300</b>

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