



# EC

## ELECTRIC CONNECTORS

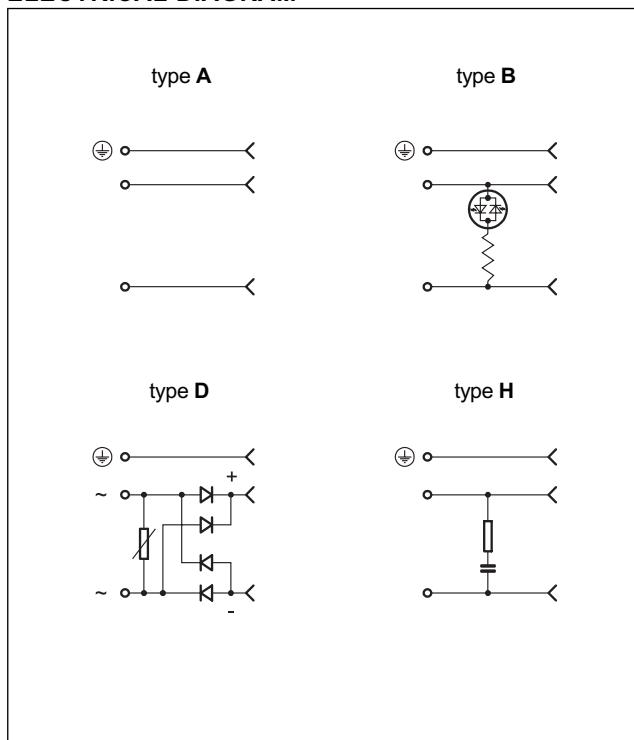
### SERIES 10

**DIN 43650**

**ISO 4400**

**type A**

#### ELECTRICAL DIAGRAM



#### DESCRIPTION

- The EC connectors, according to DIN 43650 and ISO 4400, are in the model "A" configuration and are used mainly for the electrical connection of valve solenoids.
- When they are correctly installed and coupled they provide waterproof protection according to CEI EN 60529 standards, class of protection IP65.
- The class of insulation is therefore in compliance with VDE 01101/89 specifications, operating voltage up to 250 Volt.
- The wire terminal block can be extracted from the external housing to allow the wire connections to the relative clamps to be made and allow the gland orientation as regards the electrical contacts to be turned through 90° as necessitated by the wiring (except version H).
- The EC connectors are available in four different types with specific functions:
  - type A, connector two poles + ground
  - type B, with lamp (available in 10 ÷ 50 and 70 ÷ 250 voltages)
  - type D, with bridge rectifier
  - type H, with RC damping circuit
- They are available in two colours, grey and black, to distinguish the mounting on solenoid "a" or "b" ports. (except version "b" in which they are transparent)
- They are supplied with M3 fastening bolt and NBR gasket.

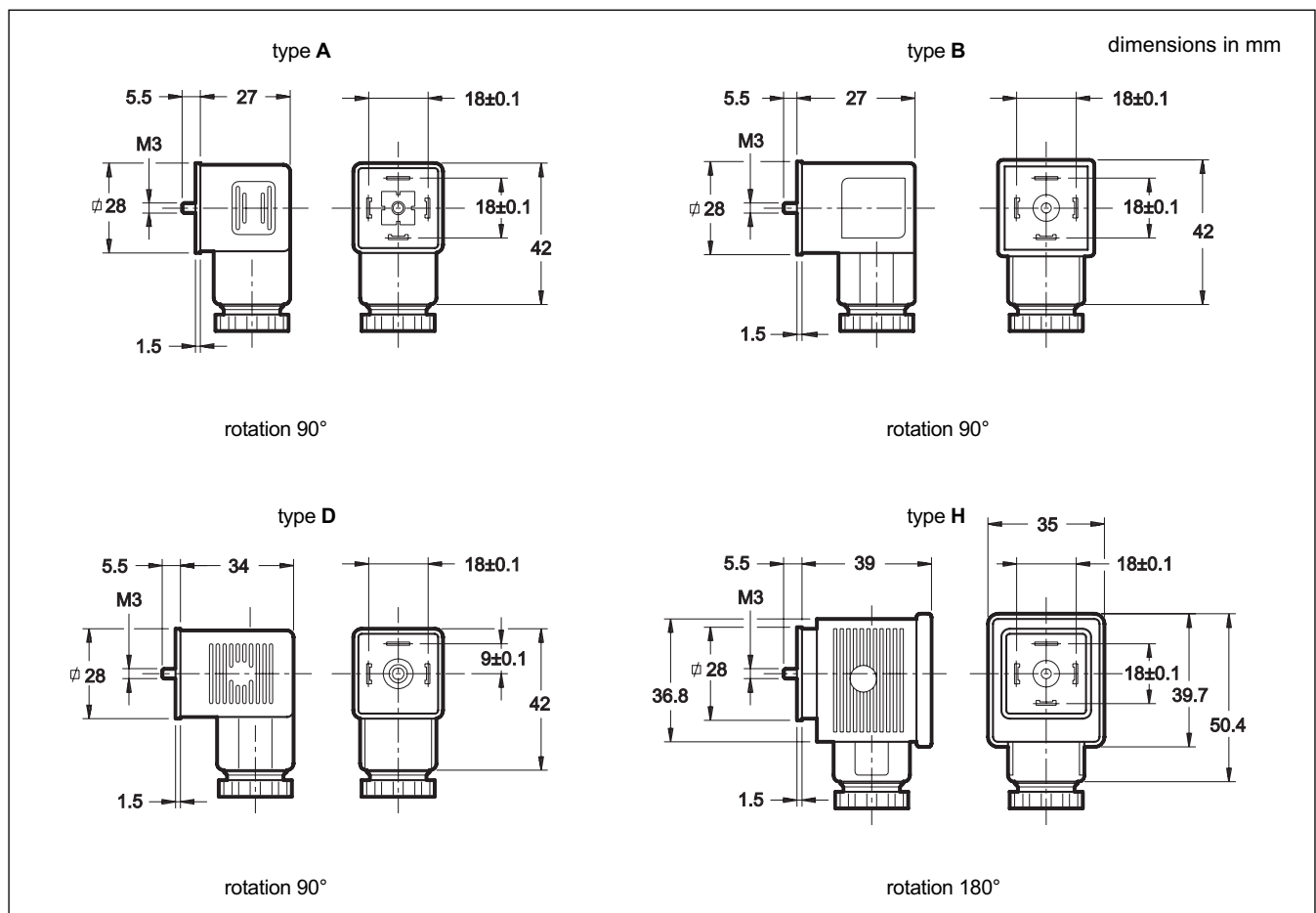
SPECIFICATIONS		type A	type B	type D	type H
Operating voltage	VCC - VCA	up to 230	10 ÷ 50 / 70 ÷ 250	up to 230	up to 230
Number of connections		2 + ground			
Current on connections	nominal	A	10		
	maximum		16		
Contact resistance	mW	≤4			
Maximum conductor cross section	mm <sup>2</sup>	1,5			
Wire external diameter	mm	6 ÷ 8			
Gland dimension		Pg 9			
Protection class		IP 65 CEI EN 60529			
Insulation class		VDE 0110-1/89			
Operating temperature	° C	- 40 / + 90			



**1 - IDENTIFICATION CODE**

<p><b>E C / / 10</b></p>	<p>DIN 43650 - ISO 4400 electric connector</p> <p>Connector type</p> <p>Series No. (the overall and mounting dimensions remain unchanged from 10 to 19)</p> <p><b>A</b> = grey colour for solenoid side <b>a</b>  <b>B</b> = black colour for solenoid side <b>b</b>  <b>N</b> = transparent for both solenoids (only for B1 and B2 versions)</p> <p><b>A</b> = connector two poles + ground  <b>B1</b> = connector two poles + ground with lamp which turns on when the solenoid is energized power supply voltage 10 ÷ 50 VDC/VAC  <b>B2</b> = connector two poles + ground with lamp which turns on when the solenoid is energized power supply voltage 70 ÷ 250 VDC/VAC  <b>D</b> = connector two poles + ground with Graetz bridge rectifier: the choice of this type of connector need an alternating current power supply and the use of CCR and RAC direct current coils.  <b>H</b> = connector two poles + ground with RC damping circuit , to avoid voltage peaks as circuit opening, suitable for alternating and direct current coils.</p> <p>N.B. For the connectors type A - D - H it is not necessary to specify the operating voltage, as the power supply voltage is up to 230 V.</p>
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**2 - OVERALL AND MOUNTING DIMENSIONS**



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