

Solenoids

U70 - U70EX - G70 - A80 G90 - H80

2

Version A and B

Connection according to DIN 43650 and DIN 40050 standards



Mod. G90, is a special type of solenoid with incorporated memory for pulsed operation.

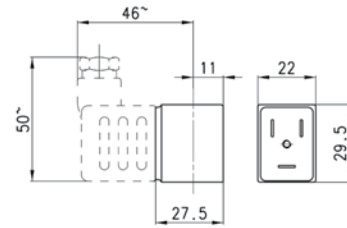
GENERAL DATA

Insulation	wire class H (180 C°)
Operation	ED 100%
Tolerance V AC	+10 -15 %
Tolerance V DC	+/- 10 %

Solenoids Mod. U7.. and Mod. G7..



Nominal dimensions: 22 x 22
 Protection class: IP54 - DIN 40050
 IP65 (with connector Mod. 122-800)
 Insulation: Class H (180°C)
 Connections: Bipolar plus earth DIN 43650 (version B)
 Protection: U70=PET G7=PA.



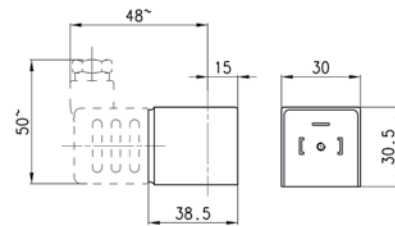
PET	PA						
U7H	G7H	24 V	50/60 Hz	3,5 VA	12 V	DC	3,1 W
U7K / U7K1*	G7K / G7K1*	110 V	50/60 Hz	4,3 VA	125 V	50/60 Hz	5,5 VA
U7J	G7J	230 V	50/60 Hz	3,5 VA	240 V	50/60 Hz	4 VA
U79	G79	48 V	DC	3,1 W			
U710	G710	110V	DC	3,2 W			
U77 / U771*	G77 / G771*	24 V	DC	3,1 W	48 V	50/60 Hz	3,5 VA
U7F	G7F	380 V	50/60 Hz	7 VA			
U72	G72	12 V	DC	5 W			
U73	G73	24 V	DC	5 W			

* to be used only with solenoid valves series A, N.O. in line.

Solenoids Mod. A8..



Nominal dimensions: 30 x 30
 Protection class : IP54 - DIN 40050
 IP65 (with connector Mod. 124-800)
 Insulation: Class H (180°C)
 Connections: Bipolar plus earth DIN 43650 (version A)

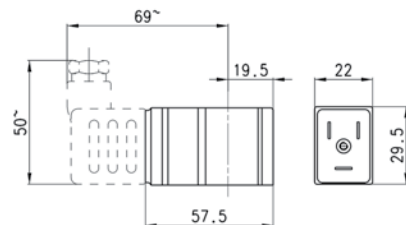


Mod.			
A8B	24 V	50/60 Hz	5 VA
A8D	110 V	50/60 Hz	5 VA
A8E	220 V	50/60 Hz	5 VA
A83	24 V	DC	4 W
A84	48 V	DC	4 W
A86	110 V	DC	4 W

Solenoids Mod. G93 (with memory)



Nominal dimensions: 22 x 58
 Voltage tolerance: DC and AC ±10%
 Operation: pulsed: see explanation



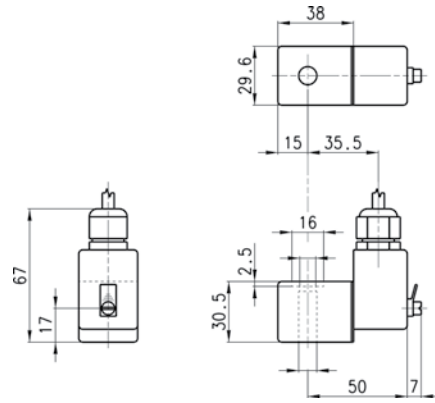
Mod.	Voltage V	Minimum impulse latch/release	Consumption mA latch/release
G93	24 DC	18 - 10	168 - 80

Explosion-proof Coil Mod. H8.. for potentially explosive ambients

Construction:

- Connection by tripolar cable (3 m standard length)
- Conformity certificate to the standard CEI 31-8 (EN 50014) and CEI 31-13 (EN50028) marked EEx m IIT4.

Incapsulating: self-extinguishing PA.

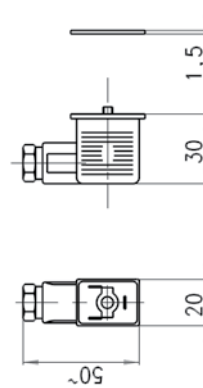


For NA Series use plate mod. NS54-PC with sol. mod.H80.

Mod.		
H83	24 V	DC
H8B	24 V	50/60 Hz
H8C	48 V	50/60 Hz
H8D	110 V	50/60 Hz
H8E	230 V	50/60 Hz

Connectors for solenoids Mod. U7.. and G7..

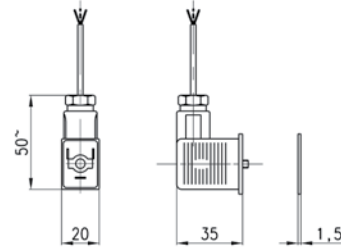
FOR SERIES U70



Mod.	
122-800	DIN 43650(PG9)

Connectors for solenoids Mod. G9

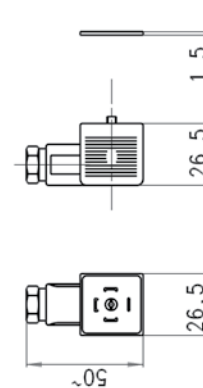
FOR SERIES G90



Mod.	
122-892C	P common positive
122-893C	N common negative

Connectors for solenoids Mod. A8

FOR SERIES A80



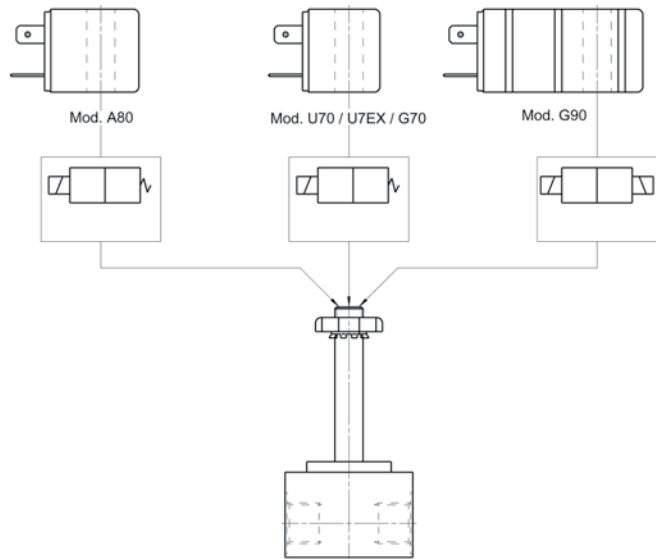
Mod.	
124-800	DIN 43650 (PG9)

Solenoids for Series "A, 3, 4, 9 and NA" solenoid valves

All solenoids presented can be mounted on the following solenoid valves: Series A - 3 - 4 - 9 - NA

NB:

For the tightening of the solenoids' nut we recommend to do it manually, avoiding the use of any equipment.



Solenoids Mod. G90

Solenoids Mod. G90 can be replaced on all other Series A solenoid valves or pilots allowing to change the valve functioning from:

- unstable functioning system (spring return)
- stable functioning system (memory)

The stable functioning has the following advantages:

- with an impulse of about 20 ms after which the valve always remains in the controlled position.
- the valve remains in the controlled position (opened or closed) even if there is no power.
- when normally opened valves should be used, it is not necessary to use valves with special mechanical parts as a NC valve becomes a NO valve just by changing the control impulse sequence.
- The impulse control system facilitates the utilization with electronic circuits. The minimum required impulse for the function is 20 ms; if, for circuit reasons, the impulse last for a longer period, there is no danger of heating.
- magnet attraction command = Actuation SW1
- magnet release command = Actuation SW2

If the solenoids are mounted in batteries, a magnetic scheme type G90/L should be used.

To facilitate the cabling a special connector is available, which contains a circuit which realises the inversion of the power supply to the solenoid, indispensable for the PLC command, 122-892 P with common positive (PNP) or 122-893 N with common negative (NPN).

