POWER-SAVE CONNECTORS

Industry standard form B (11 mm)
ISO 4400 / EN 175301-803, form A,
sizes 22 and 30

Series
881

FEATURES

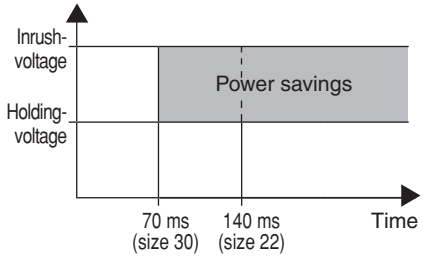
- *The main advantages of a connector with voltage reduction are:*
  - *Power savings (lower current consumption)*
  - *Low heat development in the solenoid valve*

GENERAL

Once a DC-type solenoid valve is activated, only the holding current, which corresponds to 50% of the inrush voltage, is necessary to keep the valve in position. The power-save connector switches to holding voltage after approx. 70 ms (size 30) or 140 ms (size 22). The holding power is thereby reduced to a quarter of the inrush power. During power reduction, the valve's coil is piloted via PMW voltage pulses.

CONSTRUCTION

Enclosure	PA (Polyamide)



ELECTRICAL CHARACTERISTICS

	Size 22	Size 30
Input voltage	12/24 V DC ± 10%	10 to 30 V DC
Ouput voltage	12 V DC ± 10%	6 to 30 V DC
Power rating	Max. 12 W	Max. 30 W
Connector	Spade plug	Spade plug
Electrical safety	Industry standard, form B	ISO 4400/EN 175301-803, form A
Number of contacts	2+1 common earth	2+1 common earth
Electrical enclosure protection		IP65 IP65
Cable diameter	6 - 8 mm	6 - 8 mm
LED green	Solenoid valve actuation	Solenoid valve actuation
LED red	-	Overcurrent or overvoltage
Voltage reduction	After 140 ms	After 70 ms
PWM frequency	7 KHz	50 KHz

SPECIFICATIONS

description	size	input voltage	holding voltage	catalogue number
Power-save connector with voltage reduction	22	12 V DC ± 10%	6 V	**88100944**
		24 V DC ± 10%	12 V	**88100934**
		12 V DC ± 10%	4 V	
	30	30 V DC ± 10%	15 V	**88100945**
		10 V DC ± 10%	5 V	

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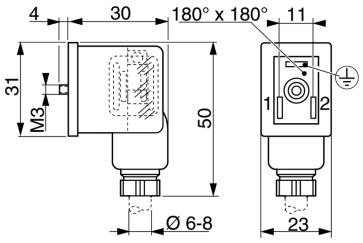
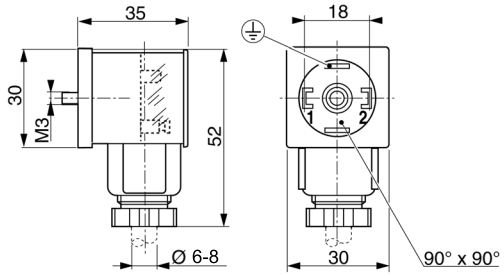
DIMENSIONS (mm), WEIGHT (kg)

SIZE 22



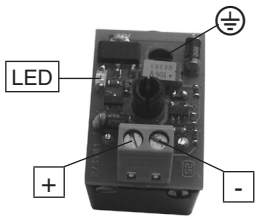
SIZE 30



weight	
size 22	size 30
0,025	0,033

ELECTRICAL CONNECTION

SIZE 22



Screw terminals: up to 1 mm² cable

\+ = Pilot voltage + (12 V/24 V)

\- = Pilot voltage - (GND)

⏚ = Earth terminal, straight through

① = Valve voltage +

② = Valve voltage -

③ = Earth terminal (PE)

SIZE 30

LED green (solenoid valve actuation)

LED red (overcurrent or overtemperature)

Screw terminals: up to 1 mm² cable

\+ = Pilot voltage + (10-30V)

\- = Pilot voltage - (GND)

⏚ = Earth terminal (PE)

① = Valve voltage +

② = Valve voltage -

③ = Earth terminal (PE)