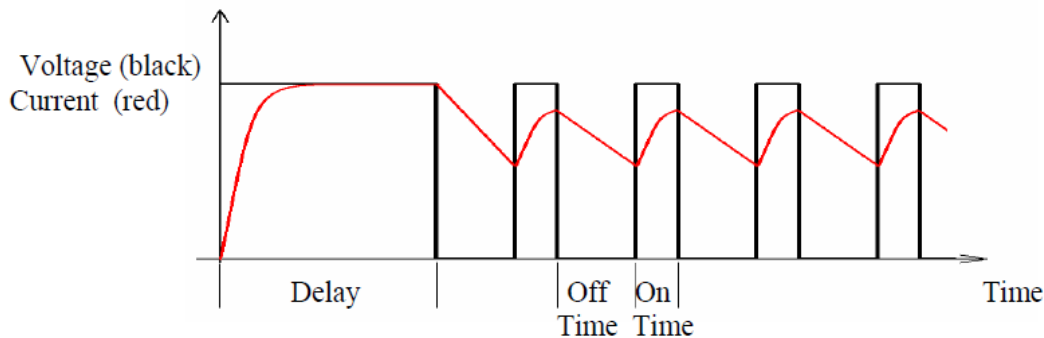
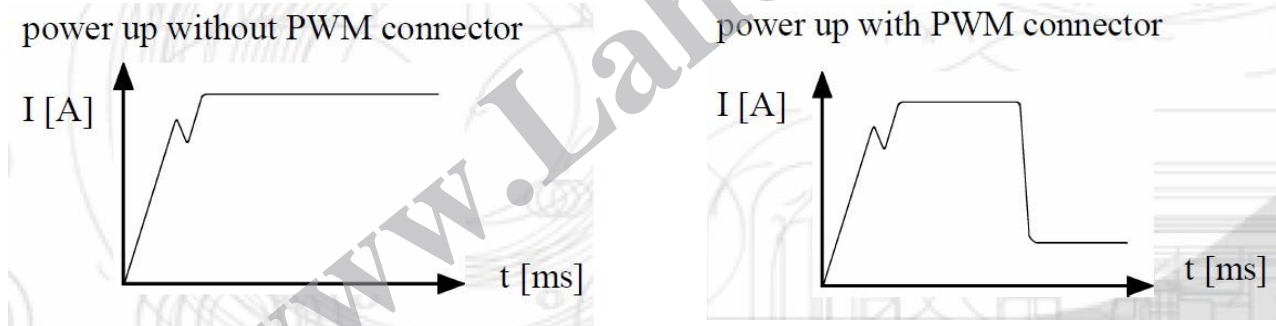
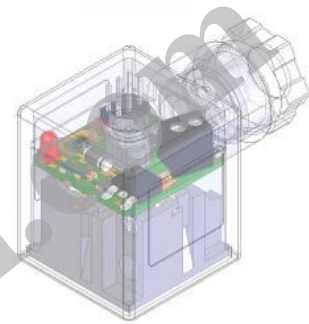


**MULTIFUNCTIONAL CONNECTOR:
POWER SAVER WITH PWM SIGNAL DESCRIPTION**

The PWM (Pulse-Width- Modulation) connector provides energy savings and extends the life expectancy of the valve coil. The connector receives the nominal voltage in order to fully energize the solenoid. Then after a timed period, the circuit reduces the full voltage to a reliable holding power save energy. This will reduce the heat rise temperature of the coil, extending the coil's life. The power reduction is accomplished through pulses with adjustable modulation of the output voltage.

Technical Data

Operating Voltage.....: Vdc = 24V DC
Maximal Current.....: I_{max} = 1 A
Delay.....: 175 ms
Switching Frequency.....: 3.1 kHz @24V DC
Pulse-Pause Ratio of PWM Signal.....: 8 fix Variation
Polarity Sensitive.....: Yes
Over- Voltage Protection.....: No



SMS Sanayi Malzemeleri Uretim ve Satisi A.S.

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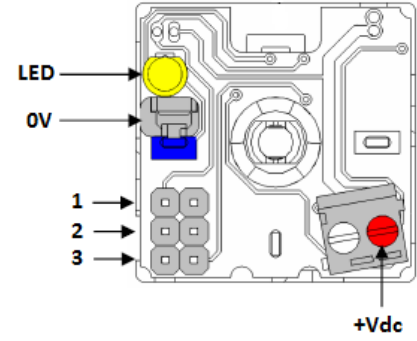
Factory: Çerkeşli OSB Mah. Dilovası İMES OSB 5.Cad. No:6 - Kocaeli / Turkey
Tel: +90 (262) 290 20 20 Fax: +90 (262) 290 20 21

Set Up of Pulse-Width-Modulation

Installation of jumper(s) makes it possible to achieve the desired level of energy savings.

If no jumper is installed, the greatest amount of energy saving is achieved. (PWM Signal = 1× On, 8× Off)

If all three jumpers are installed, the least amount of energy saving is achieved. (PWM Signal = 8× On, 1× Off)



Program	1	2	3	4	5	6	7	8
Jumper 1	0	1	0	1	0	1	0	1
Jumper 2	0	0	1	1	0	0	1	1
Jumper 3	0	0	0	0	1	1	1	1
Pulse Ratio	1:8	2:7	3:6	4:5	5:4	6:3	7:2	8:1
U Reduction	11%	22%	33%	44%	56%	67%	78%	89%