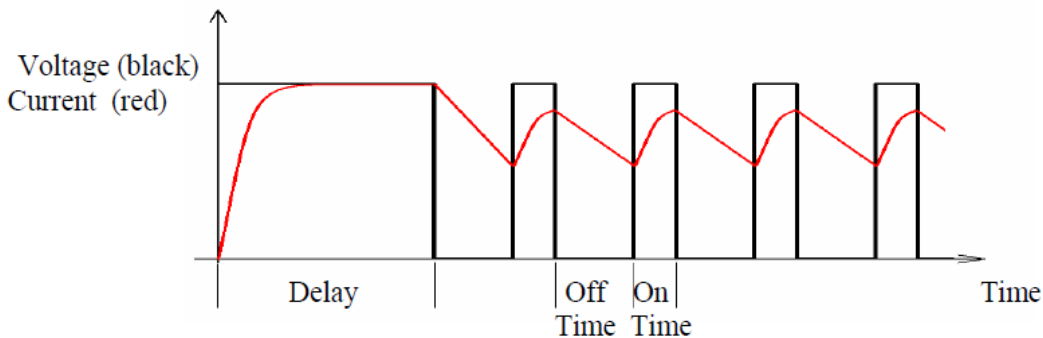
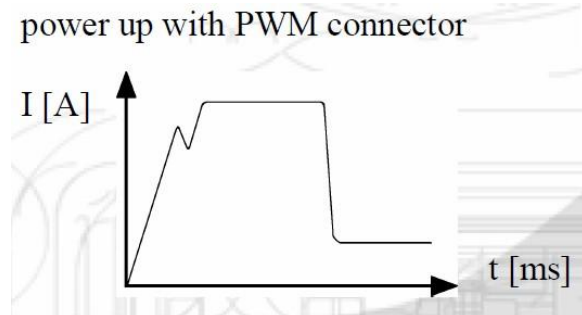
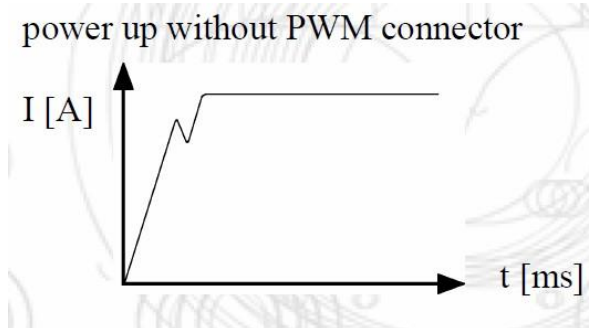
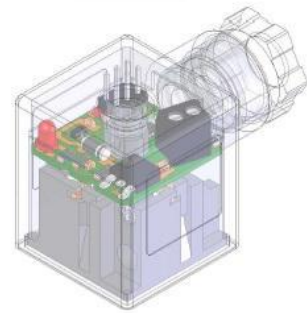


**MULTIFUNCTIONAL CONNECTOR:  
POWER SAVER WITH PWM SIGNAL DESCRIPTION**

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<sub>max</sub> = 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

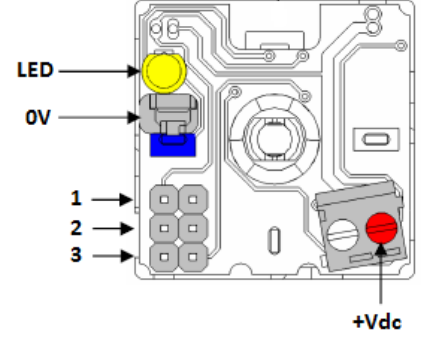


### Set Up of Pulse-Width-Modulation

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%