

# 47 SERIES ATEX COIL WITH PWM SOCKET

C47 series coils are specially designed for the control of fluids in explosive atmospheres or potentially explosive atmospheres. These coils, which operate with DC voltage, provide both energy saving and low heating values, enabling safe use in ex-proof environments.

## GENERAL FEATURES

- New design
- High performance
- Long lasting
- Energy saving
- It can be used for the control of LPG, natural gas, fuel oil, diesel oil and other flammable explosive fluids.



## COIL CHARACTERISTICS

Continuous Duty	: ED %100
Coil wire thermal insulation class	: HB (180°C) IEC 60317-51 or HC (200 °C) IEC 60317-38
Coil Encapsulation Material	: Fiber Glass Reinforced Poliamid 6.6 GFR 30 FR VO
Ambient Temperature	: -10°C, +60°C
IP Protection Degree	: IP67 as standard (ISO 60529), IP68 on request
Connector Specification	: ISO 4400 / EN 175301-803 Form A
Electric connection	: 3x0.75 mm <sup>2</sup> cable, 3 meters (different sizes available upon request)
Cable specification	: HFFR (Halojen İçermez, Alev Geciktirici)
Standard Voltages	: DC 12V, 18V, 24V, 48V
Standard power	: DC 18 W
Voltages Tolerance	: +/- %10
Genlik modülasyonu	: %11 - 89 , Standart % 56

## ATEX SPECIFICATIONS

Certificate number	: IEP 19 ATEX 0748X
ATEX direktifi	: 2014/ 34/ AB
Compliance standards	: EN IEC 60079-0:2018, EN 60079-18:2015, EN 60079-31:2014
ExProof protection class	: Ex II 2G Ex mb IIC T4-T5 Gb Ex II 2D Ex tb IIIC T(120-90)°C Db

## WIRING CONNECTIONS

Brown cable	: +VDC
Yellow-green cable	: Topraklama
Blue cable	: GND

	Jumper Configuration			24 V DC 18 W Coil				12 V DC 18 W Coil		
	3	2	1	Power Rate	Max. reach of the coils Temperature (°C)	Current drawn when the coil is at 24 °C (A)	Current drawn when the coil is at max. temperature (A)	Max. reach of the coils Temperature (°C)	Current drawn when the coil is at 24 °C (A)	Current drawn when the coil is at max. temperature (A)
1	0	0	0	11%	30,6	0,011	0,011	29,2	0,012	0,012
2	0	0	1	22%	34,8	0,039	0,039	34	0,058	0,056
3	0	1	0	33%	42,4	0,085	0,083	38,2	0,142	0,014
4	0	1	1	44%	53,2	0,15	0,14	51,4	0,26	0,244
5	1	0	0	56%	67,2	0,241	0,214	63,4	0,428	0,383
6	1	0	1	67%	82,4	0,347	0,29	76,2	0,626	0,512
7	1	1	0	78%	94,8	0,465	0,378	90	0,855	0,684
8	1	1	1	89%	104	0,604	0,474	104	1,125	0,847