

COIL GROUP

9.0

**INTRINSICALLY SAFE
ELECTRICAL PARTS
"ia"**



**492965 ELECTRICAL PART
"BOOSTER" "IS" 50 mm**

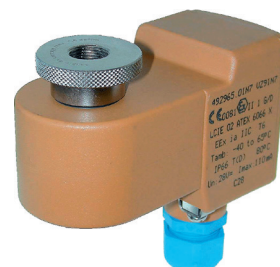
This coil can be mounted with every Parker ATEX solenoid valves corresponding to the specified Coil Group.

See column "Coil Group" within valve pages.

Application: Control of solenoid valves in dangerous areas where explosion-proof protection Ex ia IIC - T6 is required.

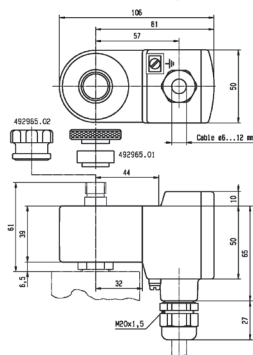
Benefits: Rotatable 360° fibreglass-reinforced plastic housing. Solenoid coil, fuses and varistor protection are completely encapsulated into the coil housing by epoxy resin for shock and corrosion protection. Small size for ease of mounting in confined space. Simplifies conversion of existing equipment to hazardous area requirements.

Small size for ease of mounting in confined space. Available only in 28 VDC.



Reference		492965.01 - (Stainless steel fixation) 492965.02 - (Plastic fixation)
Certificate		LCIE 02 ATEX 6066 X - IECEx LCI 07.0007 X
Coil Group		9.0
Type of protection	Gas	II 1 G - Ex ia IIC - T6
	Dust	II 1 D - Ex ta IIIC - T80°C
Degree of protection		IP66 according to IEC/EN 60529 Standards
Ambient temperature		- 40°C to +65°C The application is limited also by the temperature range of the valve.
Electrical connection		Cable connection through a plastic or stainless steel cable gland M20 x 1.5 allowing use of cable diameter from 10 to 12 mm. Additional earth connection possible with external screw terminal.
Class of insulation		H 180°C
Maximum supply voltage		28 VDC (N7) - 110 mA
Power	DC Minimum	0.3 W (with 13 VDC)
	Maximum	2.3 W (with 24 VDC)
		Depending on applied voltage, IS barrier type and resistance of connected cable
Line check		4 mA or 5 VDC max
Coil resistance at 20°C		85 Ω
Impedance		275 Ω (with 13 VDC) - 260 Ω (with 24 VDC)
Apparent inductance		0 mH
Apparent capacitance		0 μF
Response time		2 - 4 s
Weight		500 g

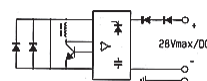
To Order a Coil choose Coil Ref + Voltage Code, example: 492965.01 for 28 VDC = 492965.01N7



Important

The intrinsically safe supply circuit should have enough capacity in all environmental conditions to assure a minimum operating current of 29 mA through the coil.

The minimal holding current is 20 mA.



For the barrier compatibility see the corresponding table in appendix section.