PENTAIR GOYEN MECAIR 3FD12V SERIES

DESCRIPTION

The GOYEN|MECAIR 3FD12V pilot valve enclosure series is an extremely robust and durable pilot enclosure range, able to withstand the toughest and harshest industrial conditions. This pilot enclosure has been designed with hazardous areas in mind and meets the stringent requirements as demanded of several standards including CE, CSA, ATEX & IECEx (see certification section for more details), making this product a superior solution for almost all hazardous area applications. The enclosure can be optioned with electronic expansion cards, compatible and recommended to be used with the PGT & ECS range of controller products. This solution optimises large plant installations, giving efficiency gains through reduced wiring and a reduction in installation time.



FEATURES

- Wide operating temperature range -40°C to +70/80°C (-40°F to +158/176°F) (see Ta for more detail).
- Conforms to CE, CSA (C & US), ATEX & IECEx (see certification section for more details).
- Compatible with the PGT & ECS controller range of expansion cards, allowing optimal product performance and benefits.
- Enclosure can accommodate up to two electronic cards.

TECHNICAL CHARACTERISTICS & PERFORMANCE

THREADS	Pilot Valve Ports		Cable/Conduit Entry		
	RC 1/4" (BSP) or 1/4" NPT		M25x1.5 Pitch ISO or %" NPT		
PILOT VALVES	0–12 valves can be installed in an enclosure.				
ELECTRICAL PULSE TIMES	Solenoid coil "on-time":		50 to 500 milliseconds		
	Minimum solenoid coil "off-time":		1 minute		
	One solenoid pulsing at a time, no solenoid connected in parallel inside enclosure.				
OPERATING PRESSURE RANGE	Maximum operating pressure		860 kPa (125 psi)		
	Minimum operating pressure		30 kPa (5 psi)		
PROCESS GAS	–40°C to +70/80°C (−40°F to +158/176°F) (see Ta for more detail)				
MBIENT TEMPERATURE RANGE	See Ta for more detail				
HEATER VOLTAGE OPTIONS	220/240 V AC	200 W	Heater cannot be supplied with enclosure with E-coat.		
	110/120 V AC	200 W			
	24 V DC	100 W			
HEATER OPERATION	The heater is operated by thermostat between 10±5°C and 27±3°C (50±9°F and 80±6°F).				
SOLENOID COIL PERFORMANCE	NOMINAL	VOLTAGE & FREQUENCY	INRUSH CURRENT	HOLD CURRENT	POWER
	200/240 V 25 W	240 V 60 Hz	143 mA	94 mA	22.6 VA
		220 V 50 Hz	148 mA	105 mA	23.1 VA
	100/120 V 22 W	120 V 60 Hz	255 mA	164 mA	19.7 VA
		110 V 50 Hz	263 mA	180 mA	19.8 VA
	24 V 19 W	24 V 50 Hz	1338 mA	963 mA	23.1 VA
		24 V 60 Hz	1096 mA	716 mA	17.2 VA
	240 V DC	240 V DC	94 mA	94 mA	24 W
	110 V DC	110 V DC	212 mA	212 mA	24 W
	48 V DC	48 V DC	429 mA	429 mA	20 W
	24 V DC	24 V DC	873 mA	873 mA	20 W

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Sira 19ATEX1122X IECEx SIR 19.0035X

Without heater IP66 Ex db IIC T5 Gb Ta: -40°C to +80°C Ex db IIC T6 Gb

Ta: -40°C to +70°C With heater IP66 Ex db IIC T3 Gb

Ta: -40°C to +80°C

ATEX & IECEx

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Sira 19ATEX1122X IECEx SIR 19.0035X

Without heater IP66 Ex tb IIIC T85°C Db Ta: -40°C to +80°C Ex tb IIIC T75°C Db Ta: -40°C to +70°C

With heater IP66 Ex tb IIIC T180°C Db Ta: -40°C to +80°C

CAN/US



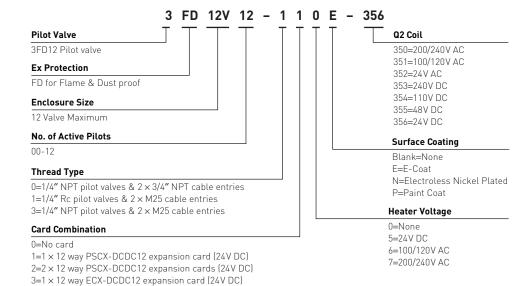
CSA Certificate CSA 19CA70186670X

Without heater IP66 AEx db IIC T5 Gb AEx tb IIIC T85°C Db Ta: -40°C to +80°C AEx db IIC T6 Gb

AEx tb IIIC T75°C Db Ta: -40°C to +70°C

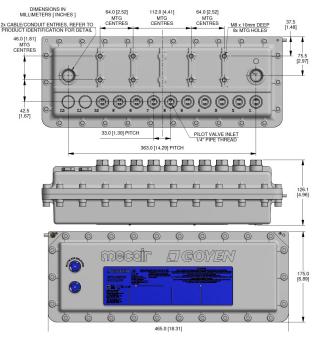
With heater IP66 AEx db IIC T3 Gb AEx tb IIIC T180°C Db Ta: -40°C to +80°C

ORDERING CODES

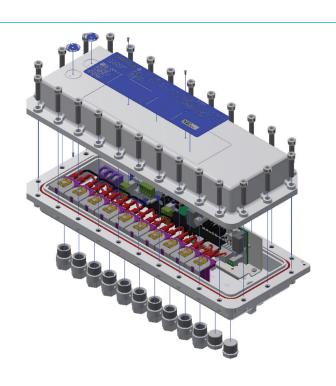


 $4=2 \times 12$ way ECX-DCDC12 expansion cards (24V DC) $5=1 \times 12$ way ECX-ACAC12 expansion card (100-240V AC) $6=2 \times 12$ way ECX-ACAC12 expansion cards (100-240V AC) 7=1 × PSCX-DCDC12 expansion card + 1 × Hub (24V DC)

DIMENSIONS



9=1 × Hub (24V DC)





^{*}Some special requirements may not be covered in the product codes above; consult manufacturer for more detail.