



Annex to IECEx DNV 09.0001 issue No.:0

The CYCLOPS are a line of type Pz purge indicator that provide evidence of pressurization for a customer supplied enclosure with either leakage compensation or continuous dilution sources of protective gas. The CYCLOPS type Pz purge indicator come in one casing style, which is available in either stainless steel or anodized aluminium, machined from bar stock. The CYCLOPS type Pz purge indicator product line monitors one pressure point. The CYCLOPS type Pz purge indicator product line are flange mounted to the outer side wall of the enclosure it will be monitoring. All electrical and alarm connections to the CYCLOPS type Pz purge indicators with terminations made inside the purged enclosure. The signal to the pressure switch is energy limited.

The CYCLOPS are a line of type Py purge indicator that provide evidence of pressurization for a customer supplied enclosure with either leakage compensation or continuous dilution sources of protective gas. The CYCLOPS type Py purge indicator come in one casing style, which is available in either stainless steel or anodized aluminium, machined from bar stock. The CYCLOPS type Py purge indicator product line monitors one pressure point. The CYCLOPS type Py purge indicator product line are flange mounted to the outer side wall of the enclosure it will be monitoring. All electrical and alarm connections to the CYCLOPS type Py purge indicators with terminations made inside the purged enclosure, which are connected to an IS barrier to limit ignition energy to unit.

The CYCLOPS or TRYCLOPS is a line of type Px purge controllers that provide evidence of pressurization and exhaust flow for a customer supplied enclosure with leakage compensation or continuous dilution sources of protective gas. The CYCLOPS and TRYCLOPS type Px purge controllers are available in two housing styles, round bodies with threaded covers machined from stainless steel or anodized aluminum bar stock or square fabricated from 316 stainless steel 14 ga. sheet metal. The CYCLOPS type Px purge controller product line monitors only one pressure and exhaust flow point. The TRYCLOPS type Px purge controller product line can monitor up to three pressure and exhaust flow points. Electrical and alarm entries into the CYCLOPS or TRYCLOPS type Px purge controllers are via cable entries for both the round and one of the square units. The remaining square unit has Ex e terminal blocks protruding into the purged enclosure. The only external electrical connections are unpowered dry alarm relay contacts rated at 265 V, 150 mA that is made via an Ex e termination. There are intrinsic safety circuits that leave the encapsulation for the key operated switch, the timer setting, indicator lights and pressure sensors.

Type Identification

CYCLOPS Z – Purge Indicator

Model	PSCZ-1A	12VDC, 6061-T6 machined aluminium round housing
	PSCZ-1S	12VDC, 316 stainless steel machined round housing
	PSCZ-2A	24VDC, 6061-T6 machined aluminium round housing
	PSCZ-2S	24VDC, 316 stainless steel machined round housing
	PSCZ-3A	115VAC, 6061-T6 machined aluminium round housing
	PSCZ-3S	115VAC, 316 stainless steel machined round housing
	PSCZ-4A	230VAC, 6061-T6 machined aluminium round housing
	PSCZ-4S	230VAC, 316 stainless steel machined round housing
Code	Ex nA nL [pz] IIC T6 -40°C≤Tamb≤+65°C	
	Ex tD A22 IP66 T79°C -40°C≤Tamb≤+65°C	

CYCLOPS Y – Purge Indicator

Model:	PSCY-1A	12VDC, 6061-T6 machined aluminium round housing
	PSCY-1S	12VDC, 316 stainless steel machined round housing
	PSCY-2A	24VDC, 6061-T6 machined aluminium round housing
	PSCY-2S	24VDC, 316 stainless steel machined round housing
Code:	Ex e mb ib [py] IIC T6 -40°C≤Tamb≤+65°C Ex tD A21 IP66 T79°C -40°C≤Tamb≤+65°C	
Input data	Power	Ui=15V, Ii=150mA, Pi=0,56W
	Alarm	Ui=10V, Ii=19mA. Pi=0,039W

CYCLOPS X – Purge Controller, SM Version

Model:	PSCS-1	115 VAC, 25A with square 316 stainless steel sheet metal housing
	PSCS-2	230 VAC, 12.5A with square 316 stainless steel sheet metal housing
Code:	Ex e mb ib [px] IIC T4 -40°C≤Tamb≤+65°C Ex tD A21 IP66 T119°C -40°C≤Tamb≤+65°C	

CYCLOPS X – Purge Controller, XP Version

Model:	PSC1-1A	115VAC, 25A, round aluminium 6061-T6 machined housing
	PSC1-1S	115VAC, 25A, round 316 stainless steel housing
	PSC1-2A	230VAC, 12.5A, round aluminium 6061-T6 machined housing
	PSC1-2S	230VAC, 12.5A, round 316 stainless steel housing
Code:	Ex e mb ib [px] IIC T4 -40°C≤Tamb≤+65°C Ex tD A21 IP66 T119°C -40°C≤Tamb≤+65°C	

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TRYCLOPS X – Purge Controller, XP Version

Model:	PST-	#	@	&	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">A=6061-T6 machined aluminium round housing</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">S= Stainless steel machined round housing</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1 = 115VAC, 25A / 2 = 230VAC, 12.5A</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1 = one enclosure controlled</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">2 = two enclosures controlled</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">3 = three enclosures controlled</div>
Code:	Ex e mb ib [px] IIC T4 -40°C≤Tamb≤+65°C Ex tD A21 IP66 T119°C -40°C≤Tamb≤+65°C				

TRYCLOPS X – Purge Controller, SM Version

Model:	PST-	#	@	<div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1 = 115VAC, 25A / 2 = 230VAC, 12.5A</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1 = one enclosure controlled</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">2 = two enclosures controlled</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">3 = three enclosures controlled</div>
Code:	Ex e mb ib [px] IIC T4 -40°C≤Tamb≤+65°C Ex tD A21 IP66 T119°C -40°C≤Tamb≤+65°C			

Degrees of protection (IP Code): IP66