

## Features

- SIL 3 / SC 3
- Output to Zone 0
- Installation in Zone 2
- Loop powered for NE loads
- Output short circuit proof
- Two port isolation, Input/Output

## 1CH I.S. SIL3 Loop-Powered Digital Output Driver

RS Stock No.: 329093



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## Product Description

*This Loop-Powered Digital Output Driver module is suitable for applications requiring SIL 3 level in safety related systems for high-risk industries. It can drive solenoid valves, visual or audible alarms to alert a plant operator, or other process control devices in Hazardous Area from control signals located in Safe Area. They can be used as switchable supplies to power measuring or process control equipments. Two basic output circuits are selectable, with different safety parameters, to interface the majority of devices on the market.*

## General Specifications

Input	Loop powered control signal
Voltage range	24 vdc nom (18 to 30 Vdc), reverse polarity protected
Current consumption	55 mA @ 24 vdc with 40 mA output, typical
Power dissipation	0.85 W @ 24 vdc with 45 mA output, typical
Output diagram	Refer to instruction manual
Short circuit current	$\geq 45$ mA
Response time	$\leq 75$ ms

## Mechanical Specifications

Weight	about 110 g
Connection	by polarized plug-in disconnect screw terminal blocks to accommodate terminations up to 2.5 mm <sup>2</sup> (13 AWG)
Dimensions	Width 12.5 mm, Depth 123 mm, Height 120 mm
Mounting	DIN-Rail 35 mm

## Electrical Specifications

Isolation	I.S. Out/In 1.5 kV
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## Operation Environment Specifications

Operating temperature	temperature limits -40 to +70 °C
Storage temperature	temperature limits -45 to +80 °C

## Intrinsic Safety Data

IS Description	Associated apparatus and non-sparking electrical equipment. Uo = 25.2 V, Io = 146 mA, Po = 916 mW (terminals 7-8) Uo = 25.2 V, Io = 108 mA, Po = 676 mW (terminals 7-9) Refer to Instruction Manual for more details Um = 250 Vrms or Vdc, -40 °C ≤ Ta ≤ 70 °C
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## Approvals

Declarations	EU Declaration of Conformity
Hazardous Area Certification	ATEX / IECEx
Functional Safety	SIL Manufacturer Declaration

