

General Specifications

AC-535-01

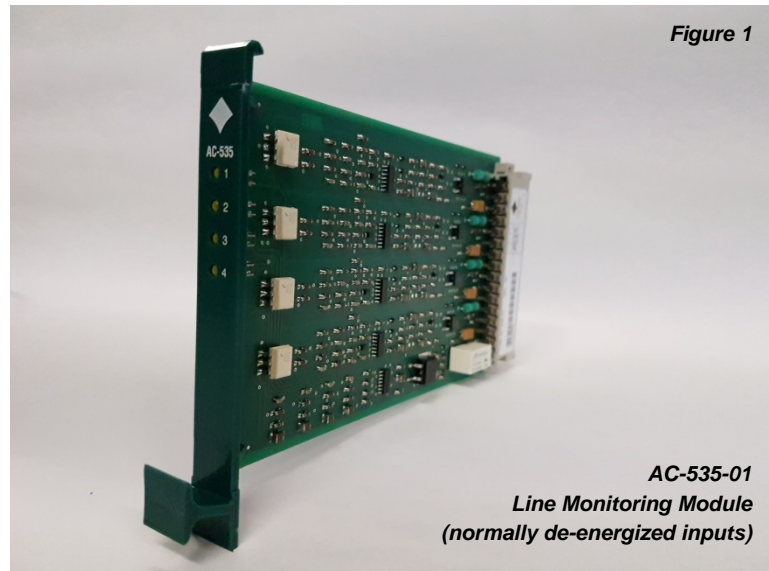
ProSafe-SLS™

GS48C35Z01-00E-N

Line Monitoring Module (normally de-energized inputs)

■ GENERAL

This module has four monitoring circuits for fail-safe 24 Vdc inputs.



The input connections are guarded against interruption and short-circuiting, each circuit having a front indication. The logic input will be disabled in case of a line short. This function can be disabled per channel.

The module is also provided with a common annunciating contact.

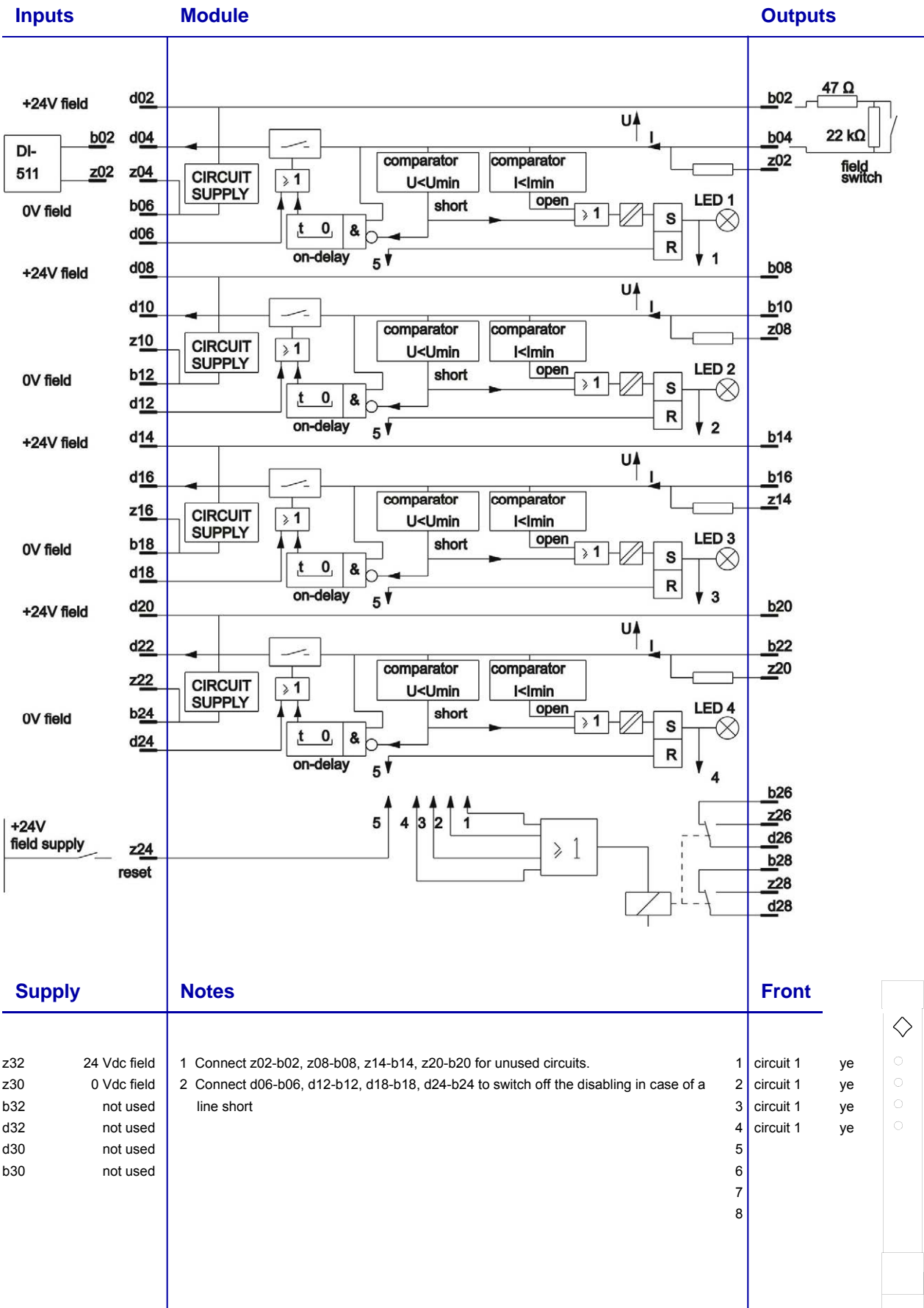
The monitoring module has a number of typical characteristics:

- Galvanic isolation per circuit
- LED indication with memory function
- Common annunciator contact

The power for each galvanic isolated channel has its own power connection

The power for each circuit must be provided at the input connections. The voltage through the input connection is monitored by comparators, annunciating a line fault. The annunciated value is held in a memory circuit until the next reset.

FUNCTIONAL DIAGRAM



■ SPECIFICATIONS

Description		Data
General	No. of channels	4
	Width	3HP
	Identification	AC-535 on front and more detailed on connector label
	Weight	115 gram
Input	Type	Voltage, switch and input DI-511
	Voltage	24 Vdc \pm 10%
	Ripple	< 1 V top-top
	Supply current	7 - 30 mA
	Output current	< 17 mA
	Internal voltage drop	0.5 - 1.0 V
	Load	Switch, 47 Ω in series and 22 k Ω parallel
	Load test current	1 mA, switch open at 24 V
	Load test voltage	1 V, switch closed at 20 mA
	Error reset	+24 Vdc, 2 mA, threshold 6 – 18 Vdc
Output	Output type	Contact DPDT
	Voltage	60 Vdc, 48 Vac
	Current	0.5 A
	Min. switching load	1 V and 0.5 mA
	Status indication	Yellow LED per channel
	Open circuit error	load > 30 - 50 k Ω
	Short circuit error	load < 15 - 25 Ω
	Level "1" to DI-511	load < 300 - 500 Ω
Propagation	On delay	630 - 670 msec. to DI-511
	Off delay	1 - 3 msec. to DI-511
	On delay	200 - 300 msec. "0" to error
	On delay	200 - 500 msec. "1" to error
	Off delay	3 - 5 msec., error reset
Supply	Field supply	24 Vdc \pm 10% Max. 1 V top-top ripple 5 - 40 mA
Dissipation		0.8 - 2.1 W error off 1.2 - 3.0 W error on

■ NOTES