PLN-DMY60 End-of-line supervision load

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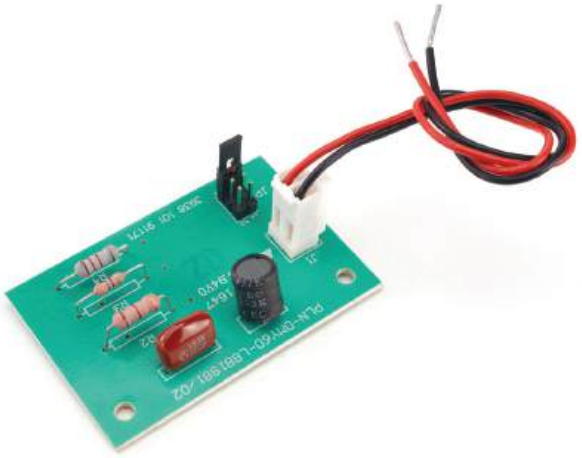

- Provides filtered load at 20 kHz
- Makes longer loudspeaker lines possible
- Three power settings
- Fits on built-in mounts on selected Bosch loudspeakers
- EN 54-16 certified

The Plena Voice Alarm System employs a simple and easy to use method of loudspeaker surveillance based on impedance measurement. On long wire runs, external influences, such as cable capacitance and speaker impedance, can negatively influence the reliability of the measurements. The dummy loads provide a filtered load exclusively at the pilot tone frequency. This greatly increases the dependability of impedance measurements, providing reliable break or short circuit detection, even on long wire runs.

Functions

To improve the performance of the impedance measurement Bosch Security Systems introduced the Plena Dummy Load. It increases the loudspeaker load at the monitored frequency of 20 kHz, while having a minimal load in the normal audio frequency range.

When connected in parallel with the last loudspeaker on a line, it will increase the percentage of impedance present at the end of the line, thus increasing the number of loudspeakers that can be attached. At the same time, it will also increase the margin for masking by cable capacitance, allowing longer cable lengths.

The dummy load connects in parallel to the last loudspeaker on a line, which must be a Bosch loudspeaker with the appropriate mounting studs. It has a jumper to set the load (at 20 kHz) to 8, 20 and 60 W, according to the results calculated by the Dummy Load Calculator.

The Dummy Load Calculator is a spreadsheet that uses macros to calculate whether an application can use a dummy load, and what the optimal load setting would be. The spreadsheet is available from all Bosch dealers.

Certifications and approvals

Immunity	acc. to EN 50130-4
Emergency	acc. to EN 54-16 *

* When used with the Voice Alarm System and installed according to the *Installation and User Instructions*

Region	Regulatory compliance/quality marks	
Europe	DOP	DECL DOP EN54-16-PlenaVAS
	CPR	DECL CPR EN54-16-PlenaVAS

Region	Regulatory compliance/quality marks
	CE DECL EC PLN-DMY60
Poland	CNBOP

Parts included

Quantity	Component
12	PLN-DMY60 Plena Dummy Load
1	Application note

Technical specifications

Electrical

Input	
Connector	High temperature flying leads
Voltage	100 V loudspeaker line
Load	8, 20, and 60 W

Mechanical

Dimensions (H x W x D)	17 x 30 x 50 mm
Mounting	Two mounting holes
Weight	Approx. 80 g

Environmental

Operating temperature	-10 ºC to +55 ºC (14 ºF to +131 ºF)
Storage and transport temperature	-40 ºC to +70 ºC (-40 ºF to +158 ºF)
Relative humidity	<95%

Ordering information

PLN-DMY60 End-of-line supervision load
Dummy loads (set of 12 pieces).
Order number **PLN-DMY60**

Services

EWE-EOLSVB-IW 12mths wrty ext. Eo Line Superv. Bo
12 months warranty extension
Order number **EWE-EOLSVB-IW**

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