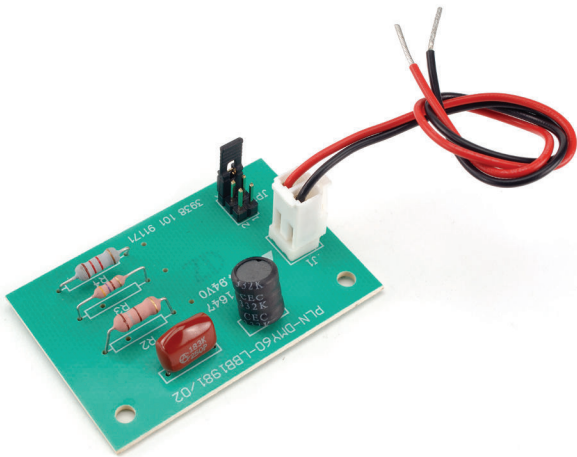


# PLN-DMY60 Plena Dummy Load

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ 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	Certification	
Europe	CE	Declaration of Conformity
	CPD	

Region	Certification
	CPD
Poland	CNBOP

### Parts included

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

### Technical specifications

#### Electrical

Input	
Connector	High temp 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	WLS II
Weight	Approx. 80 g

#### Environmental

Operating temperature	-10 °C to +55 °C (14 °F to +131 °F)
Storage temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Relative humidity	<95%

### Ordering information

#### PLN-DMY60 Plena Dummy Load

Dummy loads (set of 12 pieces).

Order number **PLN-DMY60**

#### Represented by:

##### Americas:

Bosch Security Systems, Inc.  
12000 Portland Avenue South  
Burnsville MN 55337, USA  
Phone: +1-800-392-3497  
Fax: +1-800-955-6831  
audiosupport@us.bosch.com  
www.boschsecurity.com

##### Europe, Middle East, Africa:

Bosch Security Systems B.V.  
P.O. Box 80002  
5617 BA Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

##### Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

##### China:

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

##### America Latina:

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
latam.boschsecurity@bosch.com  
www.boschsecurity.com