

CURRENT® family

## MV BPL coupler

model 9140

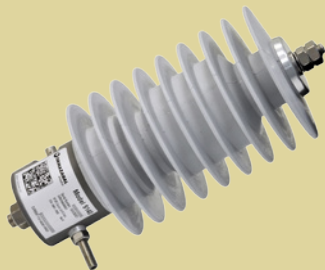
Reliable innovation. Personal solutions.

## Preface

The Ormazabal **CURRENT® family Communication Portfolio** provides real-time, **Connected Intelligence™** that allows you to cost effectively connect to locations or assets within your distribution grid.

Our **MV BPL coupler model 9140**, together with the **MV BPL** modem and the Active Signal Distribution Box, forms the most mature and comprehensive product portfolio available in the market for Medium Voltage Broad-band Power line solutions.

The **MV BPL coupler model 9140** is an essential component within the **Ormazabal CURRENT® family Communication Portfolio**. It is designed for the frequency range of broad band power line technology between 2 MHz and 40 MHz.



## Integrated Solution

Combined with **Ormazabal CURRENT® family** network and device management software **OpenGrid®** Networking, the **MV BPL coupler** alongside the **MV BPL** maximizes total Smart Grid benefit for capital invested whilst reducing overall cost and risk. Simply easy to use!

## Standard Protocols

Our **MV BPL coupler** complies with accepted standard ratings and can be installed in any type of air insulated switchgear with nominal voltage of up to 24 kV (line-to-line)

## Interoperable

With an industry standard BNC interface, the **MV BPL coupler** enables seamless integration of not only the **Ormazabal CURRENT® family MV BPL** modem, but also third party devices.

## Key features and benefits

### Compact, lightweight design

Our **MV BPL coupler** is a lightweight solution: its top and bottom single screw attachments enable fast, easy installation.

### Cost effective solution

Together with our **MV BPL** modem (**api-2000-sa**), the **MV BPL coupler** forms a very compelling cost model for medium broad band power line technology that is unrivalled in the industry.

### Technical superiority

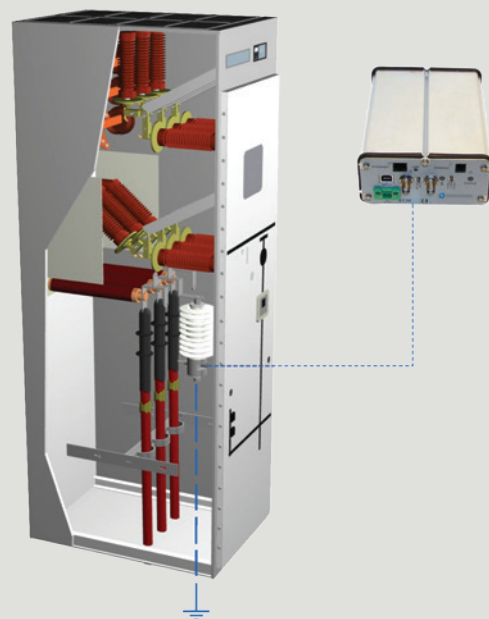
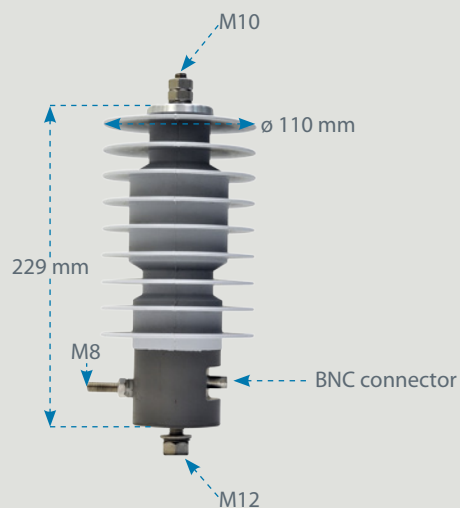
With low insertion loss and phase-to-ground capacitive coupling, our coupler is a "zero"-maintenance product compliant with IEC 60481 safety requirements.

### Durable and safe

Ensured by the durable silicon material and compliance with standards electrical ratings

### Interoperable

Our **MV BPL coupler** works with all **CURRENT® family** and **Ormazabal** products as well as 3<sup>rd</sup> party products.



## Standard

IEC 60481

UNE 21333

IEC 60815

## Technical data

### Technical features

Insulation Voltage	24 kV <sub>rms</sub>
Lightning impulse withstand voltage	125 kV <sub>peak</sub>
Dielectric Strength	50 kV <sub>rms</sub> for 1 minute
Drain coil capacity	1 A <sub>rms</sub> permanently 50 Arms for 0.2 s
Partial discharges	<10 pC at 15 kV
Galvanic isolation for communication port	5 kV
Arcing distance	216 mm
Creepage distance	625 mm

### Environmental features

Ambient operating temperature	-25 °C to +60 °C
Storage temperature	-25 °C to +70 °C
Pollution	Contaminant level D

### Communication features

Frequency range	2-40 MHz
Insertion losses	<2 dB from 3 to 40 MHz
Impedance Line side	20 Ω
Impedance Equipment side	50 Ω

### Mechanical features

Insulation Material	Silicone
Signal Connector (BPL)	BNC (female)
RoHS compliant 2002/95/EC	Yes
Dimensions	See diagram
Weight	1.7 kg

