

PMD EM M-30 LR - Sensor



1646045

<https://www.phoenixcontact.com/us/products/1646045>

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Soil moisture sensor, LoRaWAN® device (class A), measuring depth: 30 cm, volumetric water content in %, degree of protection: IP67

Product description

The soil moisture sensor measures the volumetric water content of the soil at a depth of 30 cm and supplies the measured value as a percentage. The measured values are made available every hour via a LoRaWAN® network. The sensor can be adapted to various soil types by simple parameterization. The measured values are interpreted in the respective application. A JavaScript file is available for decoding the measured data.

Your advantages

- Completely wireless
- Battery life: 5 years ... 8 years
- Easy to parameterize and install
- Maintenance-free operation

Commercial data

Item number	1646045
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR02
Product key	DR12Z4
GTIN	4067923176027
Weight per piece (including packing)	369.3 g
Weight per piece (excluding packing)	265 g
Customs tariff number	90259000
Country of origin	SI

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Technical data

Product properties

Product type	Sensor
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Electrical properties

Supply

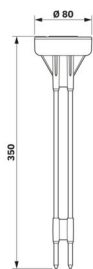
Battery type	Lithium battery
Battery voltage	3 V
Service life of battery	5 years ... 8 years (at a transmission speed of 1 x per hour)

Interfaces

Wireless

Number	1
Frequency	868 MHz (Europe EU868)
Frequency range	863 MHz ... 870 MHz
Wireless standard	LoRaWAN®
Transmission power	≤ 14 dBm
Transmission physics	LoRa®
Number of wireless interfaces	1

Dimensions

Dimensional drawing	
Height	350 mm
Diameter	80 mm

Material specifications

Color (Housing)	blue (RAL 5015)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-20 °C ... 60 °C

Mounting

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Mounting type	Plug-in mounting
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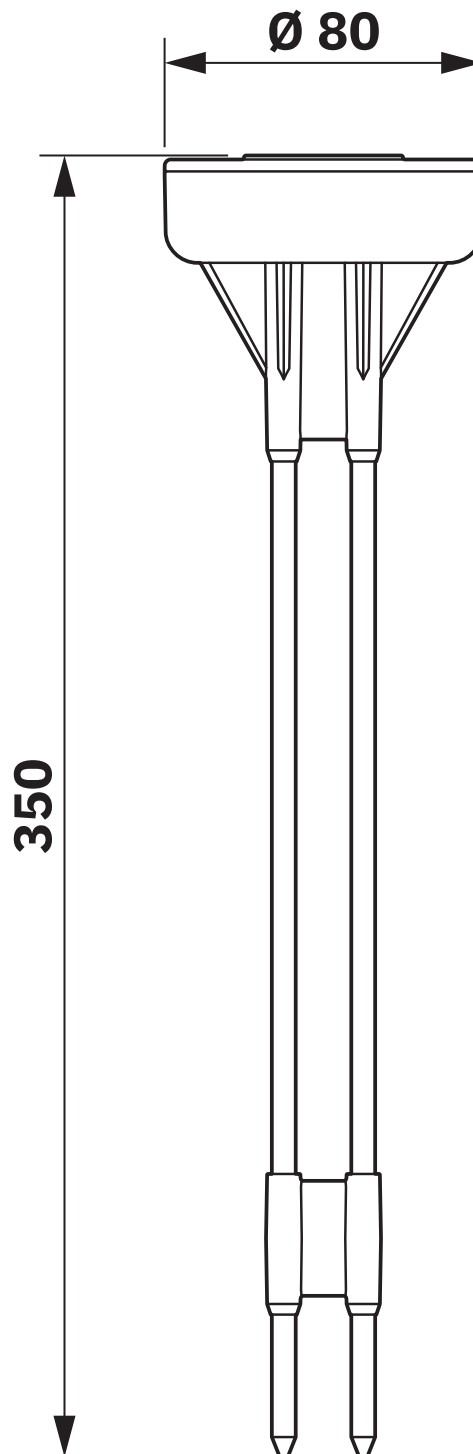
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Drawings

Dimensional drawing



Dimensions (in mm)

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Classifications

ECLASS

ECLASS-13.0	27242692
ECLASS-15.0	27242692

ETIM

ETIM 10.0	EC002584
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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