

PRODUCT DATA SHEET

2025

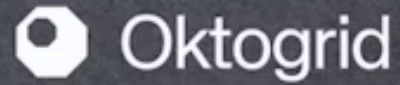
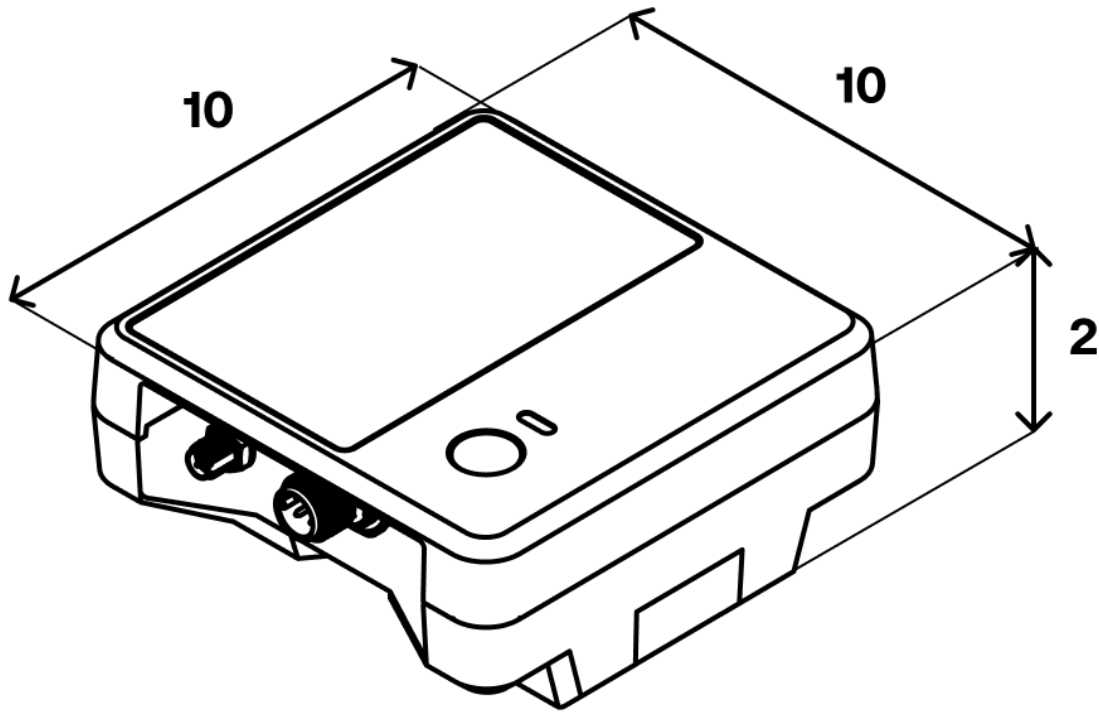


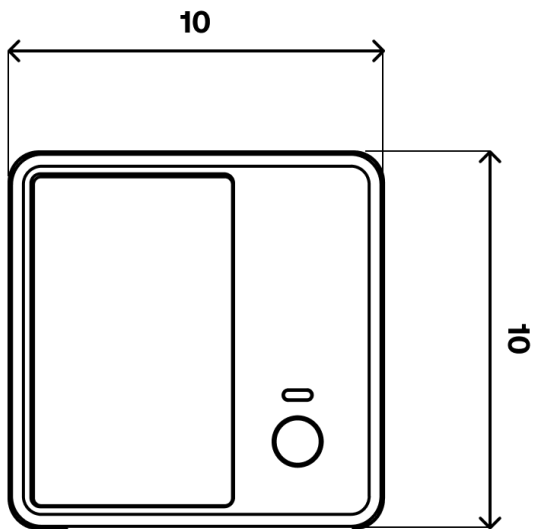
Table of Contents

DATA COLLECTOR™ SPATIAL MEASUREMENTS	3
Dimensions	4
Electrical Characteristics	5
Data and Security	6
ANTENNA	7
Dimensions	7
Electrical Characteristics	7
M12 CABLE	9
Dimensions	9
Electrical Characteristics	10
BATTERY	12
Electrical Characteristics	13
UTILITY POWER SOURCE	14
Dimensions	14
Electrical Characteristics	15

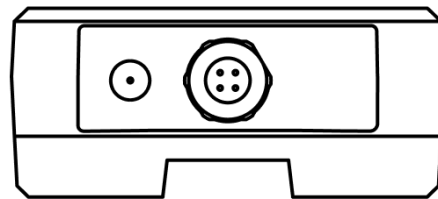
DATA COLLECTOR™ SPATIAL MEASUREMENTS



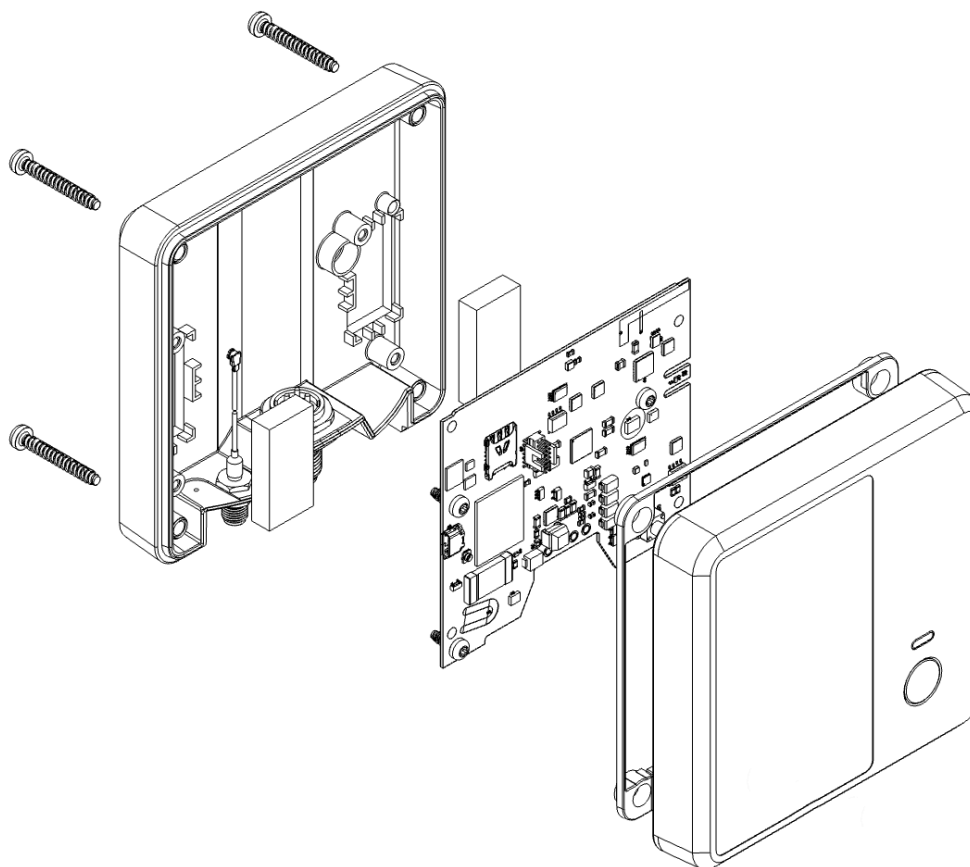
Front view



Bottom view



Exploded view



Dimensions

Weight	350 g
Width	10 cm
Height	10 cm
Depth	2 cm

ELECTRICAL CHARACTERISTICS

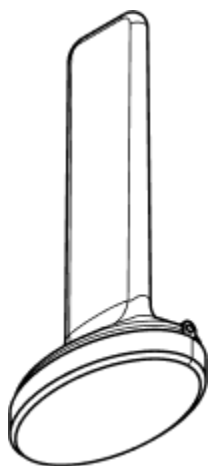
Emission	Product family standard industry EN 61000-6-4:2007 + A1:2011 Product family standards EN 301 489-1 v1.9.2 FCC 47 CFR Part 15B
Immunity	Product family standard industry EN 61000-6-2:2005 Product family standard industry EN 61000-6-2:20019 Product family standards EN 301 489-1 v1.9.2
Harmonized Standards	Electromagnetic Compatibility Directive (EMC) 2014/30/EU Restriction of Hazardous Substances Directive (RoHS) 2011/65/EU + 2015/863/EU)
RED	EN 301489-1 V2.2.3 (concerning RED article 3.1 v) EN 30 489-3-V2.2.3 EN 62368-1-2014 with Amd.11:2017 (concerning RED article 3.1 a)
RoHS	EN IEC63000:2018
Input Requirements	Voltage input: 3.6V Current: 1.2A
Ambient Temperature	-40° to 85°C
Contact Temperature	-40° to 150°C
Ambient Humidity	10% to 90%, non-condensing
Water Resistance	IP67
Pressure	70 kPa to 106 kPa

DATA AND SECURITY

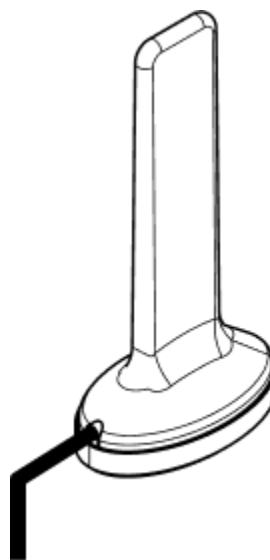
Data	LTE CAT-M1 & NB-IOT module and an eSim
Connection	TLS 1.2 connection and data transmission takes place over MQTT. Supports global coverage of 603+ networks
Magnet Fixture	Block magnet 30 x 15 x 6 mm, heat resistant
RF Bands	CAT-M1: B1, B2, B3, B4, B5, B8, B12, B13, B18, B19, B20, B25, B26, B27, B28, B66 NB-IOT: B1, B2*, B3, B4*, B5*, B8, B12*, B13*, B18, B19, B20, B25*, B26*, B28, B66*, B85*

ANTENNA

Front View



Back View



Dimensions

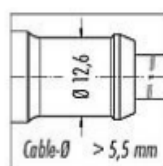
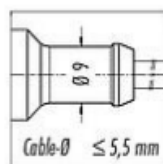
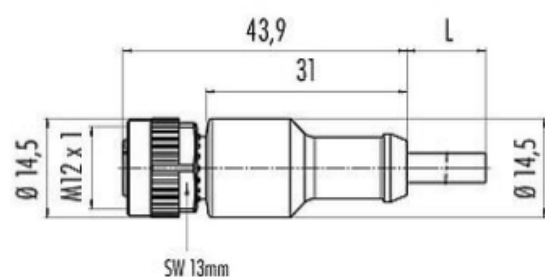
Weight	112 g
Width	Top 3,5 cm / Base 8cm
Height	14,5 cm
Depth	Top 5 cm / Base 5cm

ELECTRICAL CHARACTERISTICS

Frequency (MHz)	680-4900
V.S.W.R	≤2
Gain (Zenith)	6dBi
Impedance (Ω)	50
Maximum Input Power	50W
Polarization	V
Connector	RP-SMA/SMA male
Cable	RG174, 2m
Plastic Housing	Black
Working Temperature	-40°C~+85°C
Working Humidity	5~95%

M12 CABLE

Spatial Measurements



Top View



Dimensions

Weight	165 g
Cross-section	4 x 0,34 mm ²
Diameter	4,7 mm

ELECTRICAL CHARACTERISTICS

Connector Design	Female cable connector
Type Standard	DIN EN 61076-2-101
Cable Length	2 meters
Version	Connector socket straight
Connector Locking System	Screw
Termination	Moulded onto the cable
Degree of Protection	IP69K
Temperature Range from/to	-25 °C / 90 °C
Rated Voltage	250 V
Rated Impulse Voltage	2500 V
Rated Current	4.0 A
Insulation Resistance	$\geq 10 \Omega$
EMC Compliance	Unshielded
Housing Material	PUR
Contact Body Material	PUR
Contact Material	CuSn (bronze)

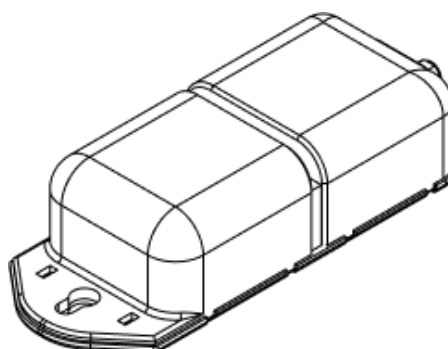
Contact Plating	Au (gold)
Locking Material	Zinc die-cast nickel-plated
RoHS Directive	2011/65/EU (EN 50581:2012)
ETIM 9.0	EC002638
Cable Colour	Black
Conductor Resistance	60 Ω /Km (20°C)
Halogen Free	Yes

BATTERY

Top View



Side View



Dimensions

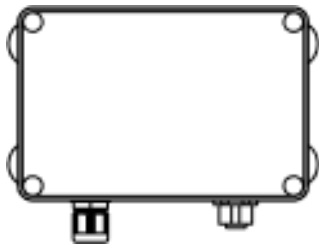
Weight	690 g
Width	7,5 cm
Height	21 cm
Depth	5 cm

ELECTRICAL CHARACTERISTICS

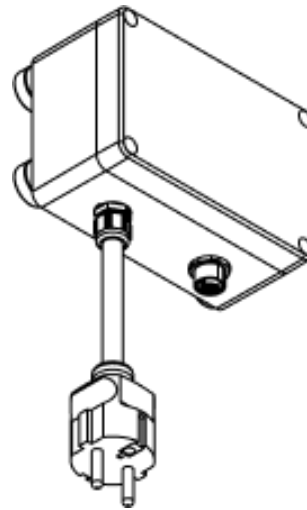
Wires with Connector	Series: 763
	Type: 09 3432 00 04
	Franz Binder GmbH & Co.
Battery Box	Black ABS
Nominal Voltage	3.6 V
Nominal Capacity	76 Ah
Temperature range	–55°C to +85°C

UTILITY POWER SOURCE

Top View



Side View



Dimensions

Weight	650 g
Width	12 cm
Height	8 cm
Depth	5.5 cm

ELECTRICAL CHARACTERISTICS

OUTPUT

DC Voltage	3.3 V
Rated Current	3 A
Current	0 ~ 3A

INPUT

Voltage Range	85 ~ 264VAC 120 ~ 370VDC
Frequency Range	47 ~ 63Hz

PROTECTION

Overload	Above 105% rated output power.
Protection Type	Hiccup mode recovers automatically after the fault condition is removed
Over Voltage	3.8 ~ 4.45V
Protection Type	Shut off o/p voltage
Over Temperature	Shut down o/p voltage, recovers automatically after temp. goes down

ENVIRONMENT

Working Temp	-20 ~ +70
Working Humidity	20 ~ 90% RH non-condensing
Safety Standards	UL62368-1, TUV BS EN/EN62368-1 , AS/NZS 62368.1, .1, BSMI CNS15598-1, EAC TP TC 004, CCC GB4943. BIS approved

Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25 / 70% RH
EMC Emission	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/ CNS15936 Class B
EMC Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8,11, EN55035, EN61000-6-1, light industry level, BS EN/ BS EN/ BS EN/ EAC TP TC 020
Magnet Fixture	Rubber-coated disc magnets Ø 19.5 mm, height 6.5 mm, Holding power approx. 3 kg