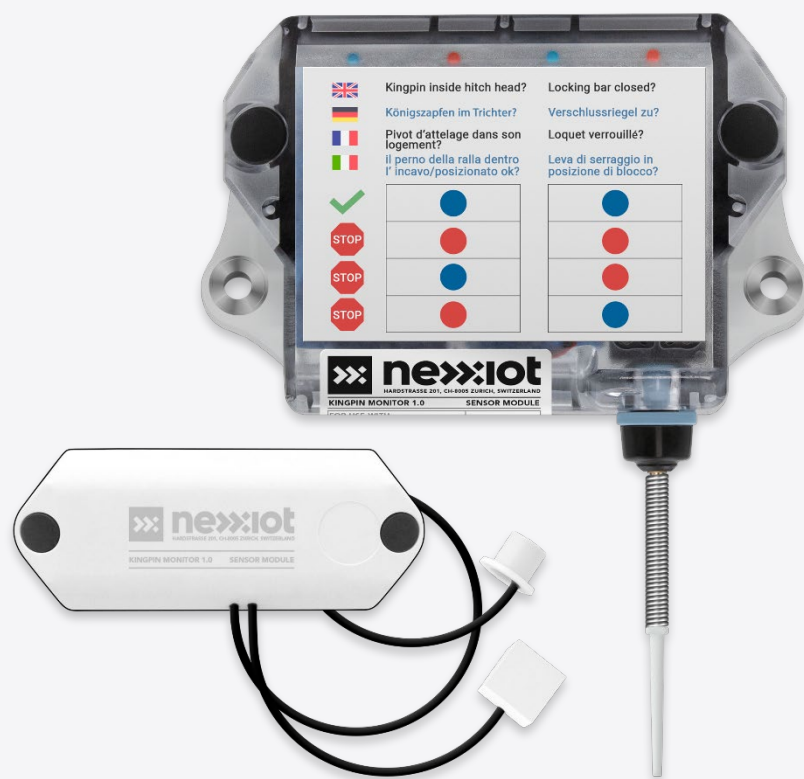


# Kingpin Monitor 1.0 Solution Datasheet



Nexxiot Kingpin Monitor 1.0 Solution is a zero-maintenance hardware unit combination for enabling real-time monitoring of hitches on pocket wagons.

Doc. Nr.: 20210519002  
 Version: 1.0  
 Status: APPROVED  
 Classification: PUBLIC  
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## 1. Technical Data

<b>Product</b>		Kingpin Monitor 1.0 Sensor
<b>ID</b>		PSK.1A (FW6170) PSK.1B (TWIN 2/3) PSK.1C (FW6150/60) PSK.1D (MAZ80800)
<b>Physical</b>	<b>Size</b>	150.5 mm x 59 mm x 23 mm / 5.90" x 2.32" x 0.9"
	<b>Weight</b>	180 g / 0.39 lb
<b>Environmental</b>	<b>Operating temperature (EN 50155, Class TX)</b>	-30 °C ... +50 °C / -22°F ... +185°F Electronics operational up to +85 °C / +185°F
	<b>Altitude</b>	2000 m / 6562 feet
	<b>Ingress Protection</b>	IP66/IP67
<b>Energy</b>	<b>Battery type</b>	Li
	<b>Nominal battery voltage</b>	3.6 V
	<b>Battery capacity</b>	3800 mAh
	<b>Primary Battery</b>	Dual 2A-Cell Type Lithium Primary Battery
<b>IEEE 802.15.4</b>	<b>Frequency range</b>	2405 MHz ... 2480 MHz
<b>NFC</b>	<b>ISO 15693, 13.56 MHz</b>	Passive, only used for Pairing App



ITSS Interface 2		ready
Lifetime	Maintenance free	6 to 10 years depending on environmental conditions and use of device
Product		Kingpin Monitor 1.0 Display
ID		PSK.1D
Physical	Size	141 mm x 100 (201,5) mm x 43 mm / 5.55" x 3.9(7.9)" x 1.69"
	Weight	350 g / 0.77 lb
	Mounting hole spacing	122 mm; Ø 7 mm, suitable for ¼" screws or rivets / 4.8"; Ø 0.27", suitable for ¼" screws or rivets
Environmental	Operating temperature (EN 50155, Class TX)	-30 °C ... +50 °C / -31°F ... +122°F Electronics operational up to +85 °C / +185 °F
	Altitude	2000 m / 6562 feet
	Ingress Protection	IP66/IP67
Energy	Battery type	Primary Lithium Thionyl Chloride
	Nominal battery voltage	3.6 V
	Battery capacity	19000 mAh
IEEE 802.15.4	Frequency range	2405 MHz ... 2480 MHz



NFC	ISO 15693, 13.56 MHz	Passive, only used for Pairing App
ITSS Interface 2		ready
Lifetime	Maintenance free	6 to 10 years depending on environmental conditions and use of device

**Environment:**

- RoHS
- IEC 61373 Category 1, Class B (Vibrations and shocks for rail)
- IEC 60529 (IP66/IP67)
- EN 50155
- EN 50125-1
- EN 60068-1
- EN 60068-2-1
- EN 60068-2-2
- EN 60068-2-5
- EN 60068-2-11
- EN 60068-2-30

**Product Safety:**

- IEC 62368-1
- EN 45545-1
- EN 45545-2
- EN 60086-4

**Radio Equipment and EMC:**

- Directive 2014/53/EU
- EN 300 328
- EN 301 489-1
- EN 50121-3-2:2016



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