



KeySmart (Beta) - V1

KP.SMT.A003.00.XXXXXX



Application

Application		Industrial applications / industrial automation / industrial digitalization
Operation		Connection to industrial operating processes via dry contacts and/or using industrial sensors.
- · ·	/ \	
Dimensions	(cm)	Lxlxh
		12 x 12 x 8

Electrical info

Supply Voltage	(V)	24 DC
Current Consumption	(A)	≤]*
Reverse Polarity Protection		Insulation voltage 1600 VDC

^{*} The KEYSMART has a typical consumption of 250 mA in nominal use, including internal electronics and application processing. It is designed to accommodate external sensors, whose consumption adds to that of the system. Total consumption must never exceed 1A, in line with the maximum capacity of the power supply. As a rough guide, this margin is sufficient to power around 20 sensors, each consuming up to 35 mA. However, a reduced number of sensors can be connected if the individual consumption of each is higher, provided that the sum of the currents remains less than or equal to 1A.

Inputs/Outputs

1. Alimentation / Power

Connector	M12 Male 4-pin
Accessories	Power adapter 230V to 24V DC – 1A
	Or
	Free wires to connect to 24V DC – 1A
	(overcurrent protection required)
Short-circuit protection	Insulation voltage 1600 VDC
Overload protection	In the case of open-wire power supply, we recommend protecting the installation with a 1A in-line fuse.

Siège social : JPB SYSTÈME Chemin de bassin - 77950 Montereau-sur-le-Jard - FRANCE

 TVA: FR08402213441
 Tél:+33164797120
 Email: contact@keyprod.com

 Fax:+33164797129
 Web: www.keyprod.com





2. Connectors

Connector	Depending on model: 3x OR 6x OR 9x M12 Female 5-pin
Accessories	Free wires to connect to dry contact (3.3V24V DC)*
	and/or
	M12 male connector digital sensors depending on use**
Indicator	Switching indicator (3x or 6x or 9x LED)
	For KS with GREEN LEDs:
	off = detection; on = non-detection
	For KS with BLUE LEDs:
	off = non-detection; on = detection
Operating conditions	Pulse input voltage of at least 3 V and at most 24 V
	Pulse duration of at least 10 ms
	A signal period of at least 20 ms, i.e. a maximum
	frequency of 50 Hz
Short-circuit protection	Digital inputs: maximum reverse voltage 6V

^{*} Standard free wires include 4 wires. It is necessary to connect the wires according to the desired connection (dry contact, sensor, power supply) and to isolate unused wires.

Conditions of use

Ambient Temperature	(°C)	0 - 40
Protection (IEC 60529)		IP2X

Certifications

Siège social : JPB SYSTÈME Chemin de bassin - 77950 Montereau-sur-le-Jard - FRANCE

 TVA: FR08402213441
 Tél:+33164797120
 Email: contact@keyprod.com

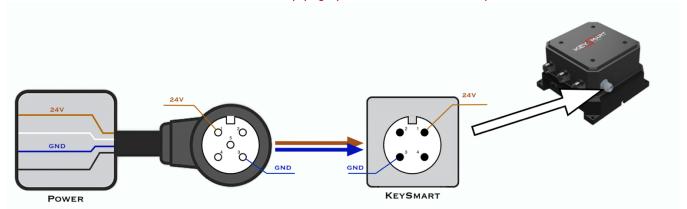
 Fax:+33164797129
 Web: www.keyprod.com

^{**} Sensors are not provided by default. Refer to the contract linked to the beta test project.



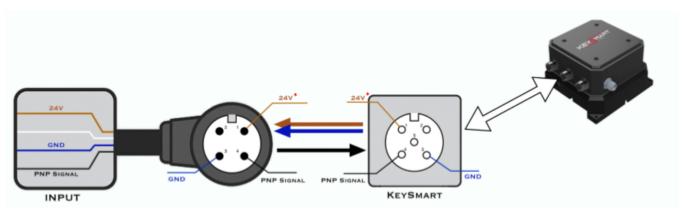


Electrical Connection - Power Supply (Cable Connector)



Electrical Connection - Digital Input (Cable Connector)

This drawing sums up all the possible connections. They must be adapted to the kind of connectors you use (cf. Internal Wiring Diagrams).



^{*} Connect the 24V power only when using a sensor that requires a 24V supply. The KEYSMART must not be powered with it.

If no external sensor is used and the digital signal comes from a dry contact, do not connect this output, but only the digital signal and ground.

Siège social : JPB SYSTÈME Chemin de bassin - 77950 Montereau-sur-le-Jard - FRANCE

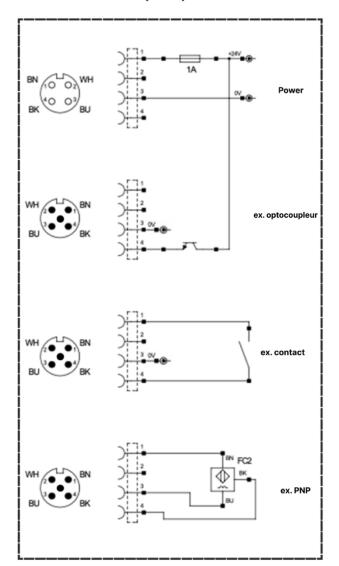
 Email: contact@keyprod.com
Web: www.keyprod.com



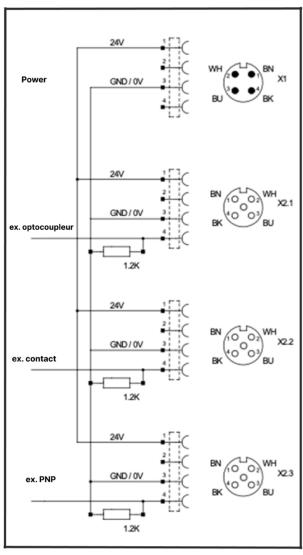


Internal Wiring Diagrams

Utilisateur / User (cable)



Keysmart



Siège social : JPB SYSTÈME Chemin de bassin - 77950 Montereau-sur-le-Jard - FRANCE

TVA: F R O 8 4 O 2 2 1 3 4 4 1

Tél: +33 1 64 79 71 20 **Fax:** +33 1 64 79 71 29

Email: contact@keyprod.com
Web: www.keyprod.com