JCP35E3 Sensor Under Bed Light



JCP35E3 Sensor Under Bed Light integrates lighting with a digital PIR sensor that activates when motion is detected. The automatic light brings ideal solution for hospital beds, nursing beds and homecare beds. Its dual intelligence adapts to ambient light (activates below 2.5lux) and detects motion within a 140° wide range.
When light is poor and movement are detected, it gently illuminates the floor under the bed—guiding movement, preventing fall accidents or bumping risks in the dark. The product meets medical safety standards, offers flexible installation, and serves as a core safety feature for home care, senior living, and hospitals.

Features And Options

Protection Class:	Max. IPX6
Colour:	Gray(RAL7035)
Flame Retardant Grade:	V0
Supporting Control Box:	Jiecang Control boxes
Input Voltage:	5V–36V
Standby Power:	2mA–20mA
Operating Power:	40mA–90mA
Side-mount detection angle:	140°, detection range≥3m
Under-bed-mount detection angle:	140°, detection range≥0.5m
Installation height:	≥0.4m
Customization:	Supports customization with different light intensities and multi-colour options (RGB)
Brightness:	Low (20% output): up to 190lux Medium (60% output): up to 315lux High (100% output): up to 450lux
Approval:	IEC60601-1

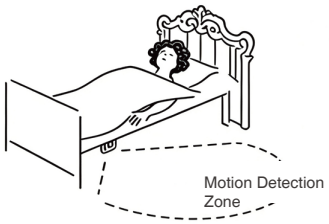
Usage

Operation Temperature:	+5°C to +40°C
Storage Temperature:	-10°C to +50°C
Relative Humidity:	20% to 80%(Non-condensing)
Atmospheric Pressure:	860 to 1060 hPa
Altitude:	Max. 2000m

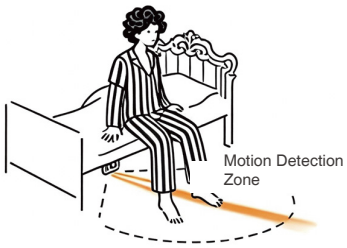
Function Description

JCP35E3 integrates lighting with a digital PIR sensor that automatically activates when motion is detected.. It also includes a built-in diode for ambient-light detection. The light activates in poor-light conditions (<2.5lux) but can be customized to activate even in brighter environments.

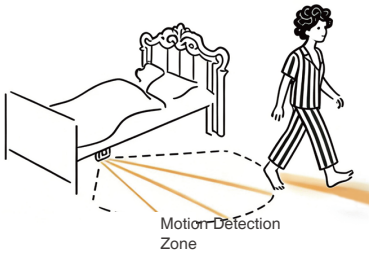
1. Patient on Bed



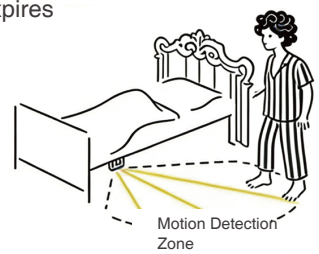
2. Patient is sitting up, thus activating the bed sensor



3.Patient walks away from the bed and exits the motion detection zone, the night light starts a delay-off timer and turns off once the time expires.



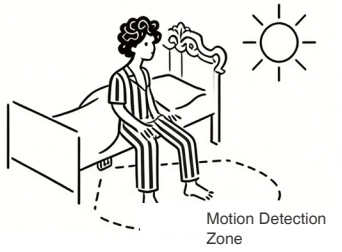
4. Patient returns to the bed, activates the bed sensor. When the patient enters the bed again, the night light starts a delay-off timer and switches off once the time expires



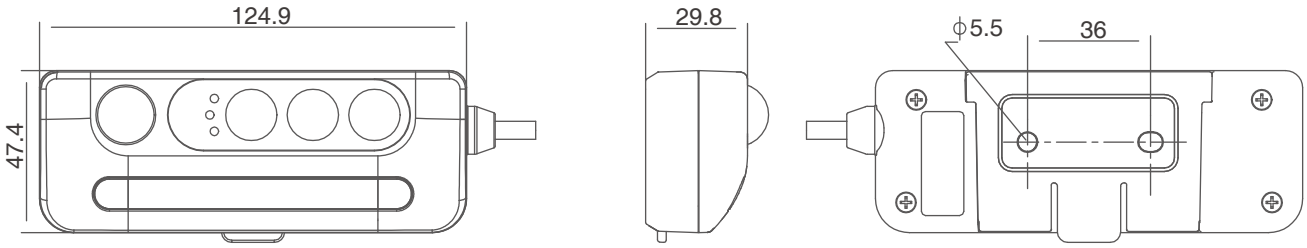
5. The sensor field of vision is obstructed, in this case by the bed sheets, and will not function



6. The night light only activates in a room with poor light (ambient light below 2.5lux)(can be customized to activate at any ambient-light level).



Dimensions



Installation

1. Fixed by screws
1) Fix the bracket onto the bed frame with M4 screws.
2)Install the light onto the bracket from bottom to top until "click" sounds



2. Magnetic
Attach light onto the metal object



Important Notes:

a.Avoid use in environments with extreme temperatures, severe vibration, or strong magnetic interference.
b.If cracks, corrosion, or a noticeable loss of magnetic force is observed on the magnet, please stop using immediately and replace the product.
c.Secure the product on its right side with a cable tie
d.Recommended for use on powder-coated iron frames with a thickness of 80μm-100μm. This range ensures stable magnetic performance. Before first use, test the magnet's hold on the frame. If it detaches easily (e.g., with slight shaking), do not put the product into service.

3. Fixed by the 3M tape
Tear off the 3M tape on the back of the light and press it hard for 10 seconds



Bracket Removal Method

Removal is accomplished by pressing the tongue protruding down from the bracket, and withdrawing the light



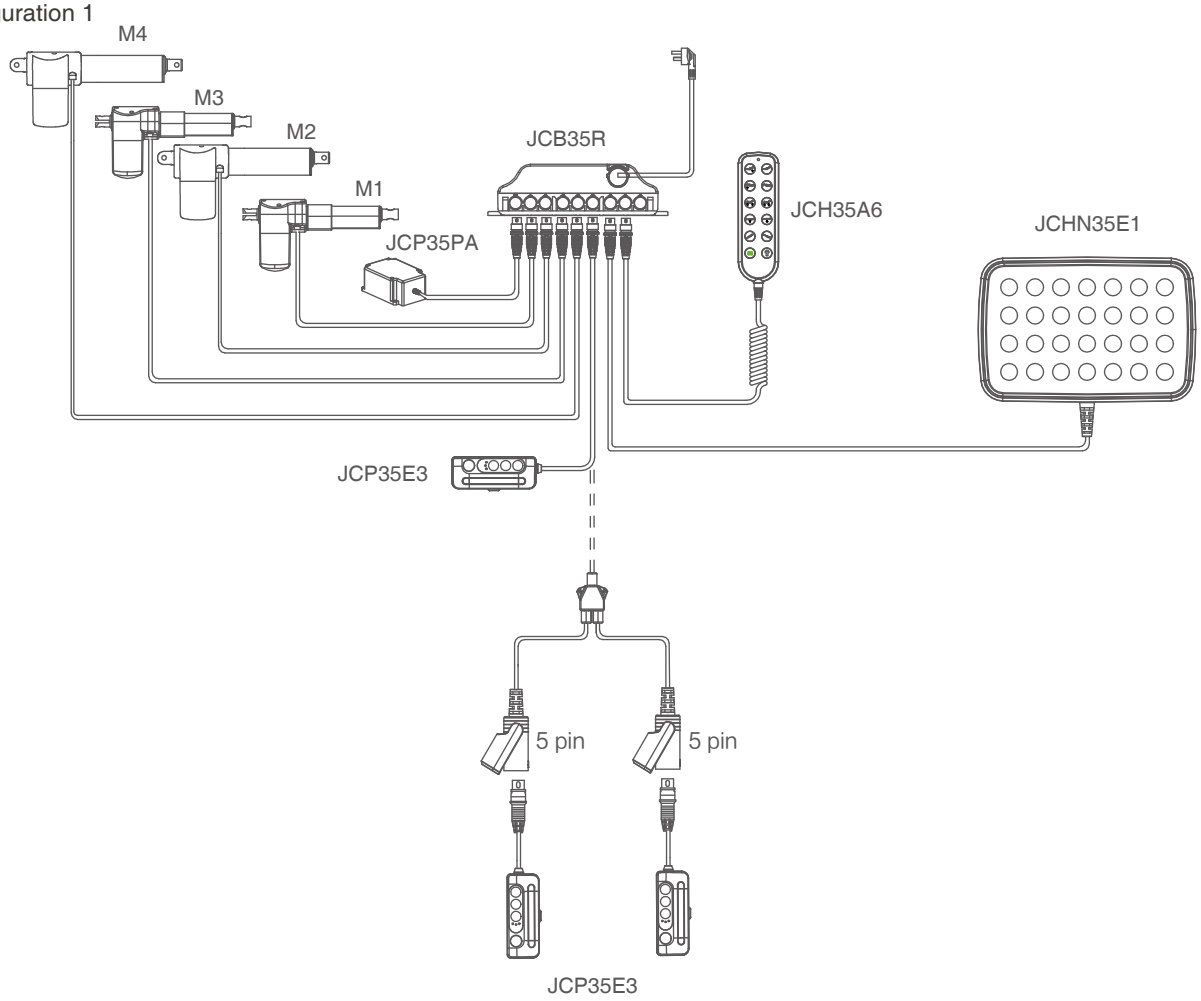
Ordering Key

Take JCP35E3LED5D11D501 as an example

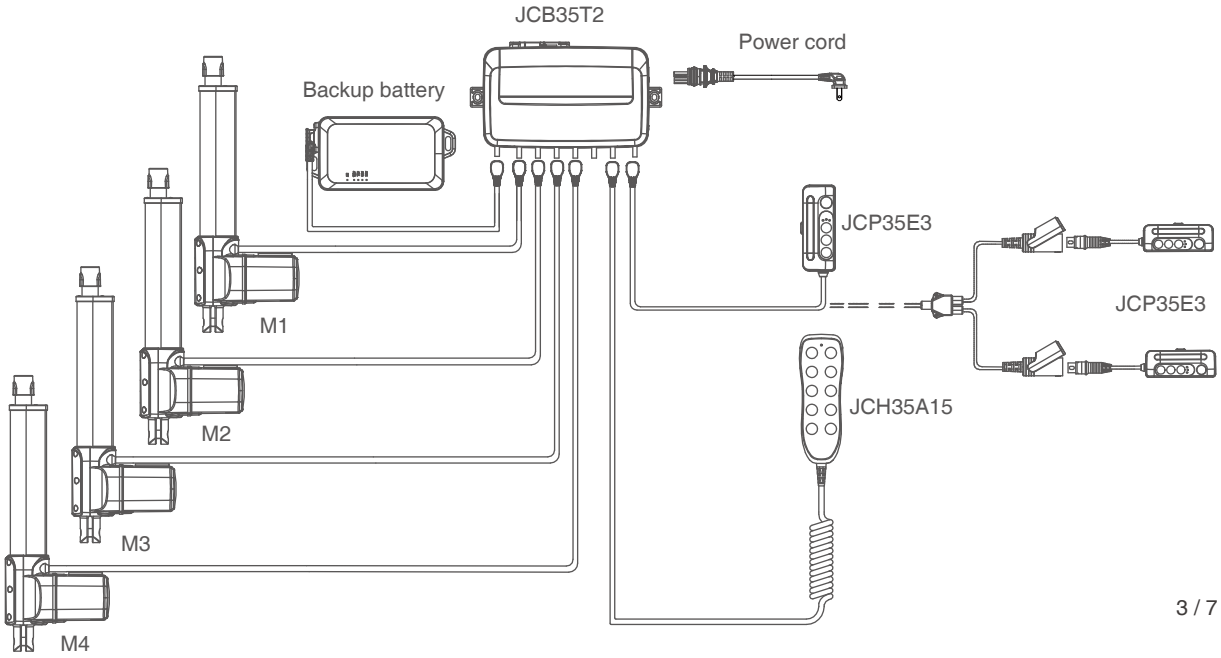
Model	**JCP35E3**	JCP35E Smart Sensor Night Light
Category	**XX**	LED
Cable plug and cable code	**XX/XX**	5D1
Cable length	**XX**	1D5
Counter	**XX**	01

System Diagram

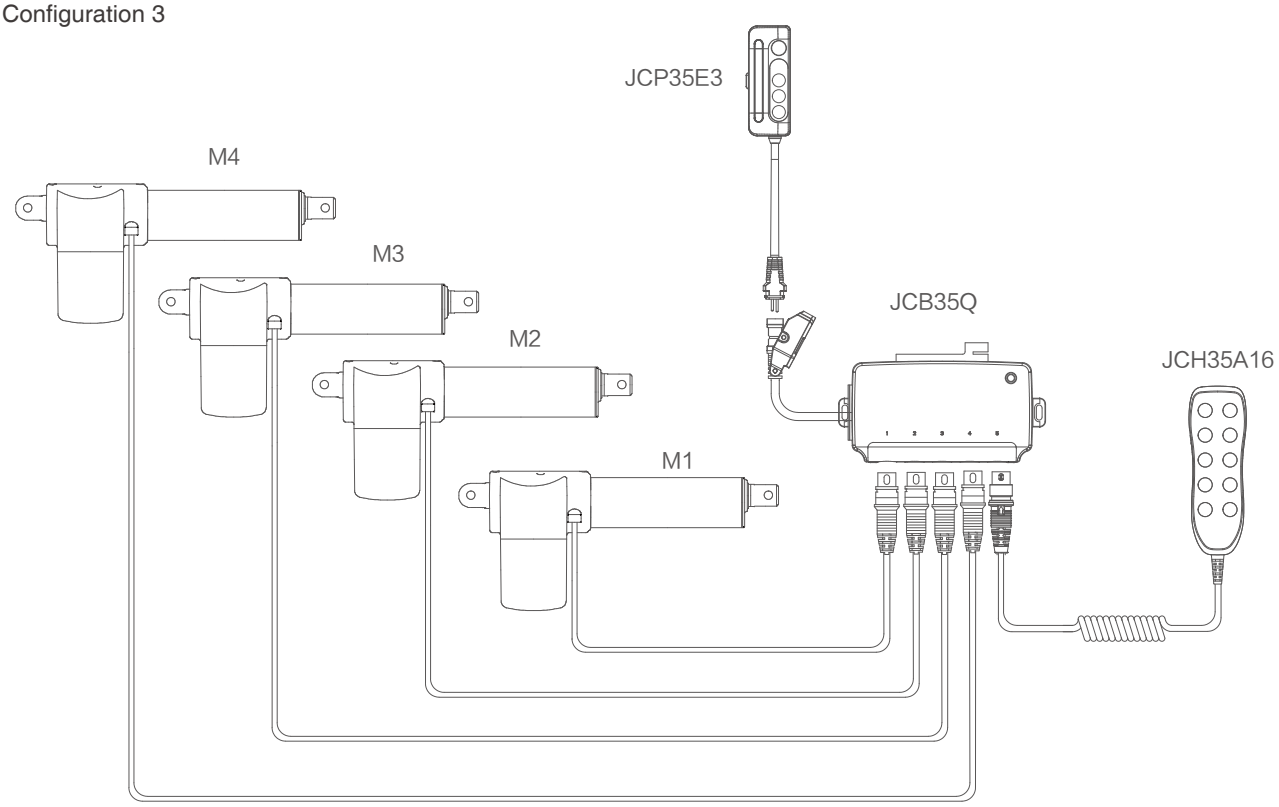
Configuration 1



Configuration 2

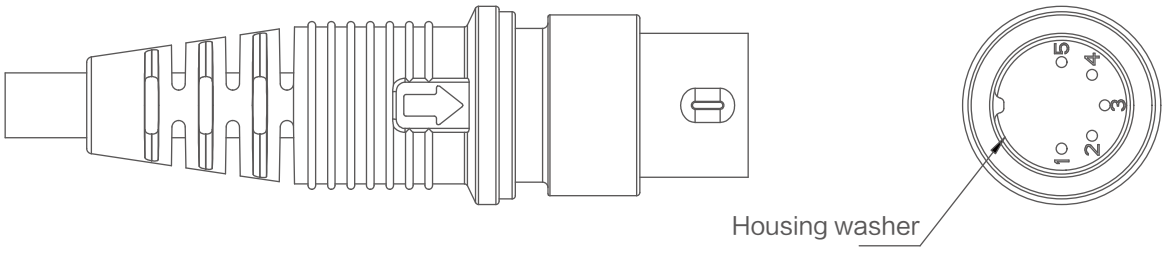


Configuration 3

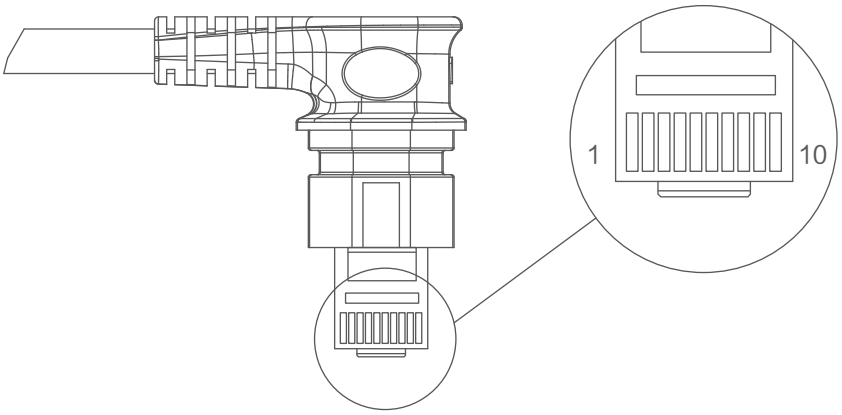


Plug

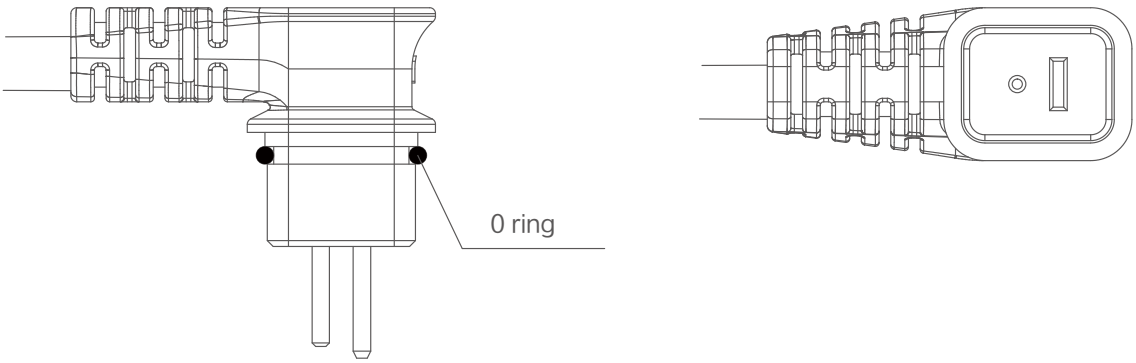
5-Din plug: straight cable: 5D1, Spiral cable:5L1 (Matching with Jiecang control boxes)



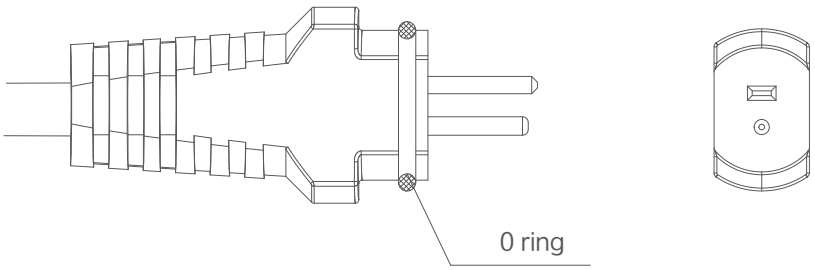
10-PIN RJ Elbow Plug: straight cable: 10H1, spiral cable: 10P1(Matching with Jiecang control boxes)



Water-proof Din 41529 Speaker connector, straight cable: C01FSW(Matching with Jiecang Control boxes/adapter)



Water-proof Din 41529 Speaker socket, straight cable: C01FSM (Matching with Jiecang Control boxes/adapter)



Notes: Matching with different systems, the plug is different. Before placing an order, please contact Jiecang salesperson in the corresponding region for confirmation.

Strictly abiding by medical safety certifications

Passed EMC tests. To ensure our products pass all kinds of tests domestic or abroad.

Communication protocol development

Aiming at different applications, develop more extensive functions for control system.

Professional customization

Powerful R&D strength, fully satisfy customers' needs. Development cycle is about 10 days, seizing more market opportunities

Intelligent Control of Bluetooth

Mobile phone as the remote, applying in home care. Market pioneer, Jiecang provides better choices

Wireless Communication

Controllers adopt high-frequency wireless system. It can avoid interference mixing with signal receivers, assisting in remote control over medical equipment.

Latest Weighing System

Designed for physiotherapy beds and medical care beds. Cantilever carrying weighing sensor, it is applicable to different bedsteads dispensing with any adjustment

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Notes for mounting and usage can be found in the corresponding mounting manual

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