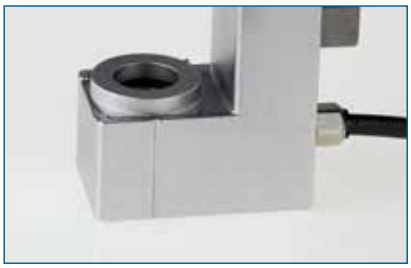
Infrared Edge Sensor
PSM-75W Series

PSM-75WX PSM-75W

Switch Panel Mounting Type



Dust Blow Unit Mounting Type

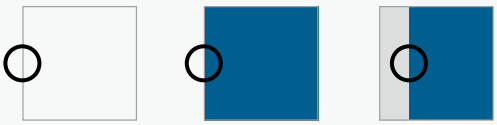
Outline

PSM-75W series is a sensor for detecting the edge of a web.
Meandering correction of a web is made in combination with a controller and a driving device of G-series.

Feature

- "W", "WX" You can choose from two types of shapes.
- Infrared light are used for the light source and it is suitable for meandering detection of the nonwoven fabric besides transparent or opaque web.
- The "DB" type with a dust blow unit in environment with many particulates is effective.
- Since "76WS" with a switch panel can perform mode change and teaching operation by the sensor body, it is convenient.
  Moreover, Switch panel mounting type can also be made the simple system (only a driving device and a sensor) which does not use a PEM type controller.

Detection Object



Transparent Web Edge | Opaque Web Edge | Boundary

Model

PSM-75W □ □ - □

Shape	Switch panel	Dust blow
①Blank (standard) ②X (the depth is wide)	①Blank (none) ②S (Yes)	①Blank (none) ②DB (Yes)

Air Specification of DB

Air Source	0.2 ~ 0.5MPa 20Nl/minute
Connecting DIA	ϕ2.1 (For ϕ3 Tube)

Technical Data

	PSM-75W series	PSM-75WX series
External Dimension	Refer to outline drawing	
Power Source	DC24V ± 20% (It supplies through McBus) ※	
Consumption Current	40mA (Power Supply Voltage DC24V)	
Installation Environment	Temperature : 0 ~ 40 ℃, Humidity : 80%Rh or less (No condensation)	
Mass	About 300g	About 350g
Supplied Cable	0.3m、With a tip connector (M12 Male Connector, 5-pole, A Coded)	
Detection Object	Web Edge , Boundary (Printed Edge , etc.)	
Detection Range	15mm	
Light Source	Infrared Light Emitting Diode	
Light Receiving Element	Photodiode	

※ McBus: The network for connecting the controller and drive machine of LPC

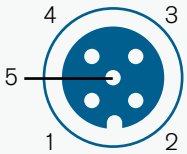
< Connection equipment when using in master mode >

The table below shows the devices that can be connected to a system with a switch panel (PSM master system) without a controller.

Connection equipment	Driving Device	· Roll guider : PGM series · Actuator : PDM series
	Option	· Extended I / O module : PXM-100 10 inputs ··· Reference position set, Mode selection (MAN/CENT/AUTO), Driving machine operation 10 outputs ···Sensor status, Mode state (MAN/CENT/AUTO), Driving machine stroke end, Center, System run · Remote BOX : PTM-100、PEM-200 (What was set as remote mode)

Notes) McBus cable and branch connector are required to connect this machine, driving unit, and other optional equipment. Please select according to the equipment to be connected. In addition, you need a connector to supply power to McBus. We are preparing the above-mentioned cable and connectors at our company. (Option)

McBus power supply connector specifications

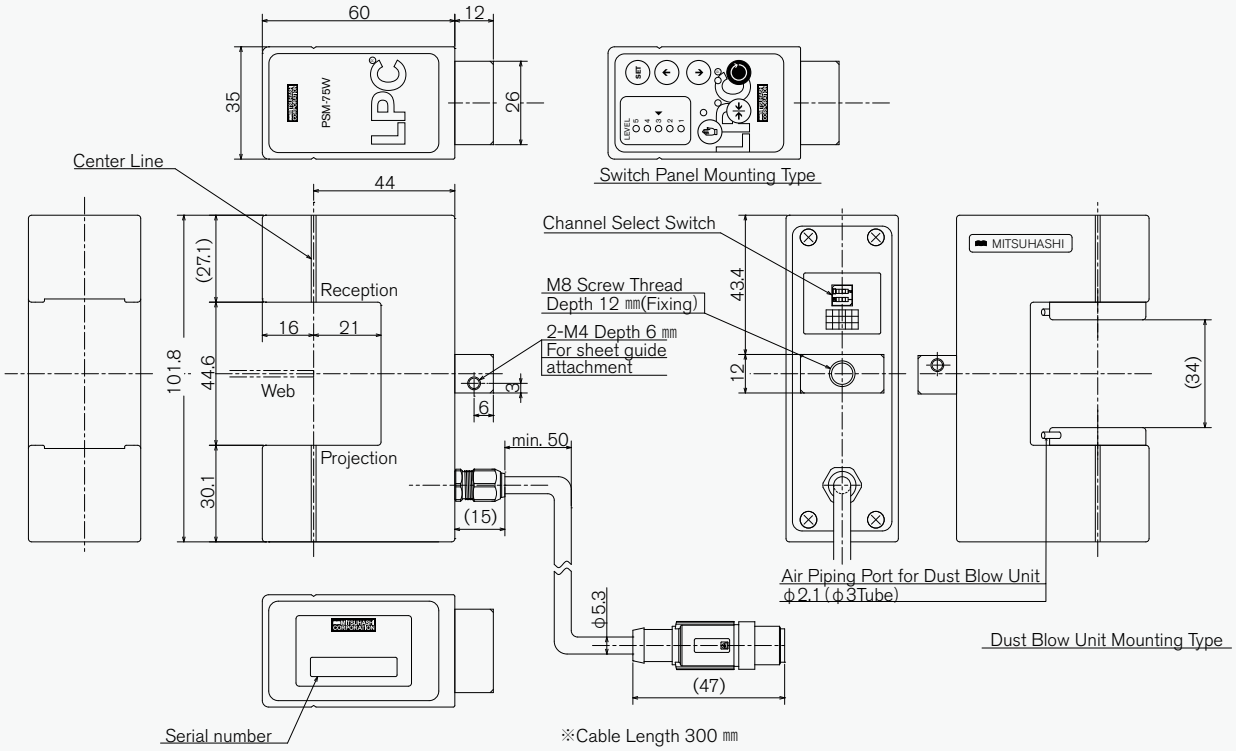


1. Ground Terminal
2. V + (24V)
3. V - (0V)
4. non connect(CAN_H)
5. non connect(CAN_L)

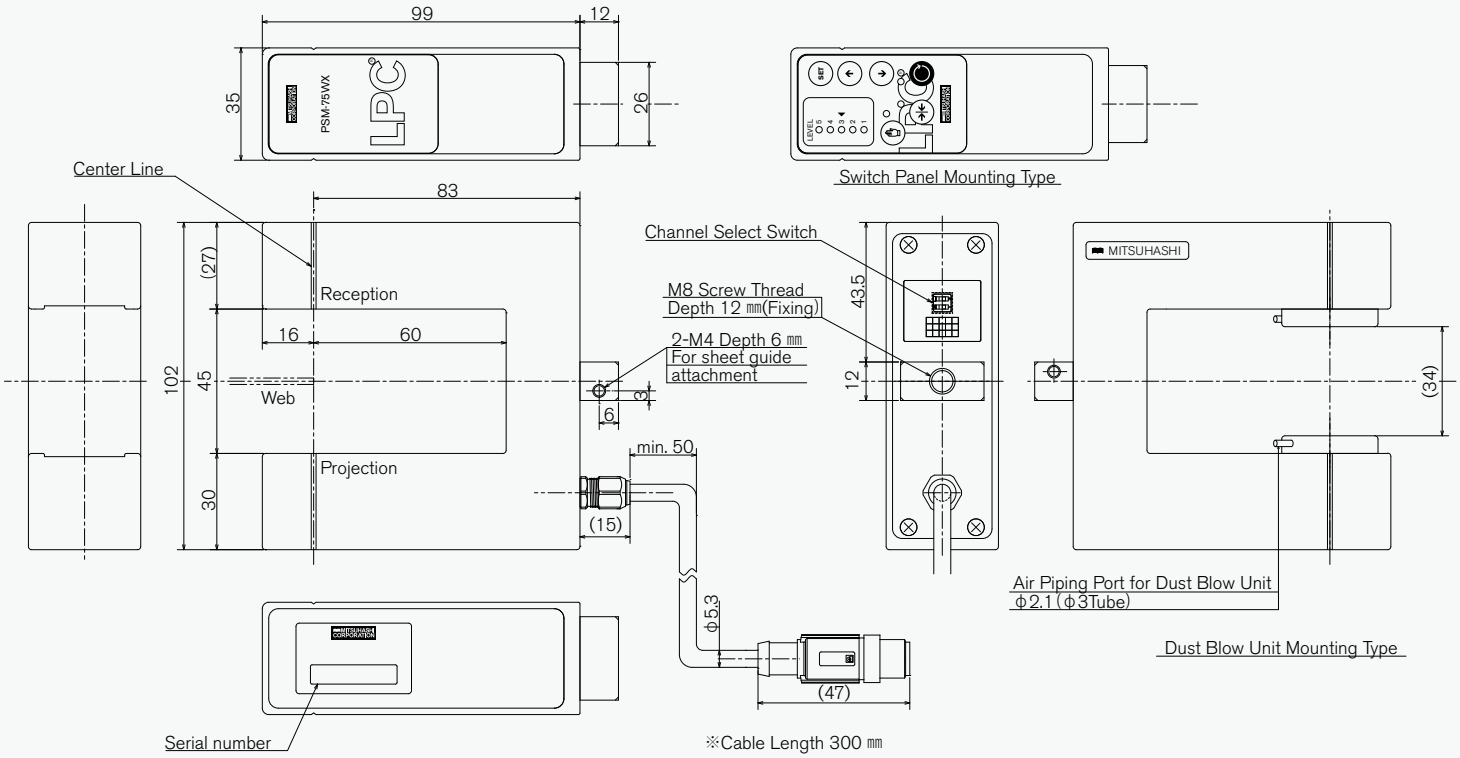
Connector :
M12 Male Connector, 5-pole, A Coded
Adaptation Connector : M12 Female Connector

Outline Drawing

● PSM-75W Series

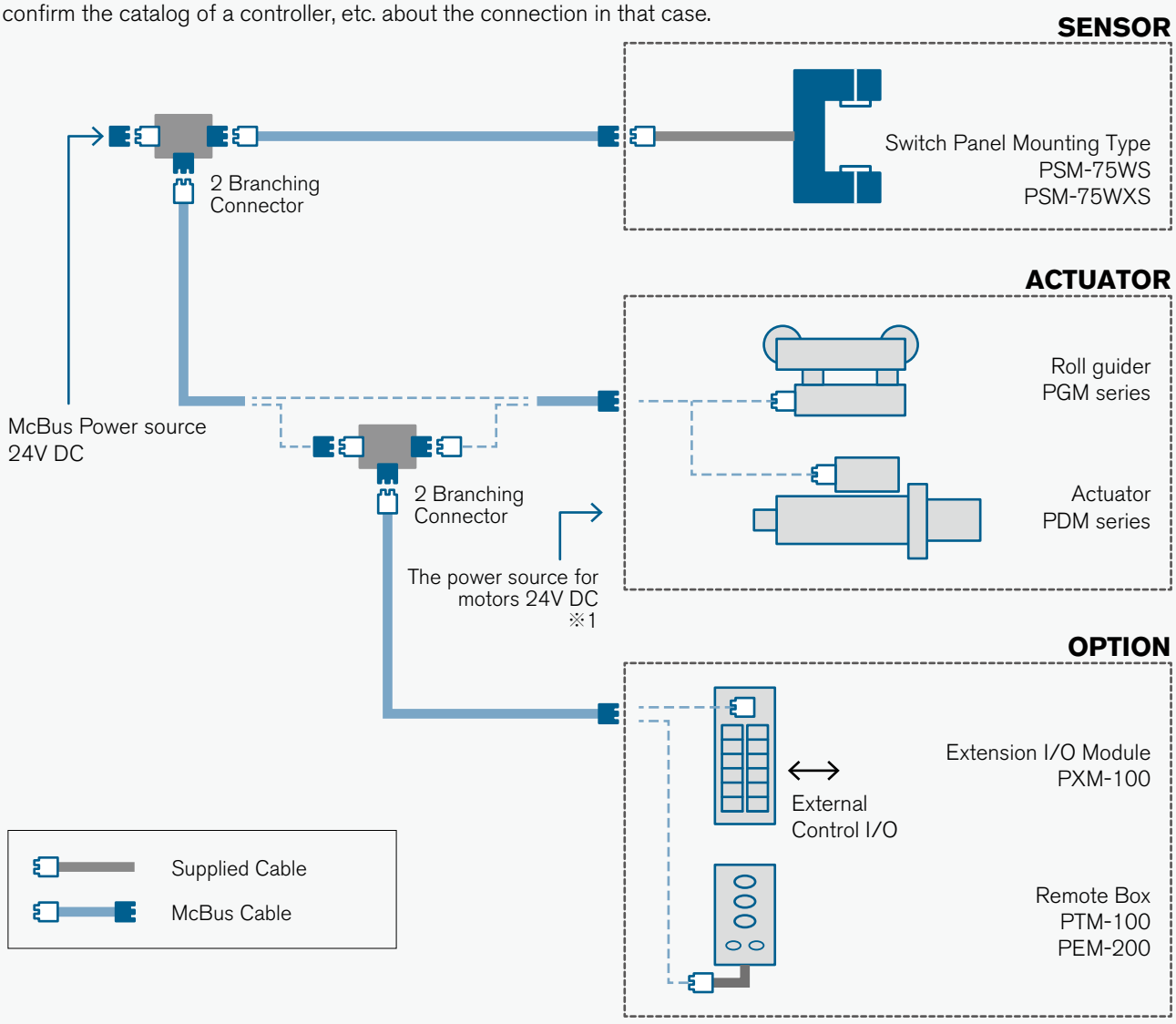


● PSM-75WX Series



Connection Diagram

※ The type with switch panel can be a simple system (master mode) that does not use a PEM type controller.
The connection diagram in that case is shown below.
Since a controller is needed separately, the type without a switch panel should be careful.
Please confirm the catalog of a controller, etc. about the connection in that case.



※ 1 The specification of the power source for motors changes with kinds of driving device.
The specification of a power source and the method of connection should confirm the specification of a driving device.

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