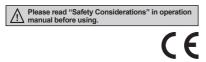
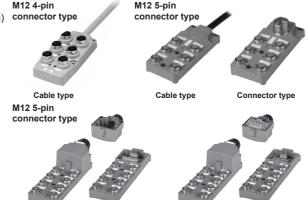
Sensor Distribution Box (M12 4-Pin/5-Pin Connector Type)

Line-up

Features

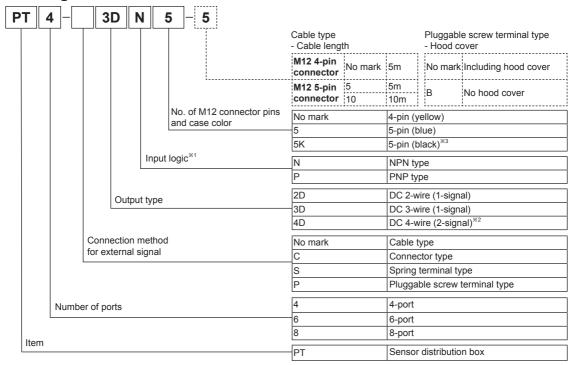
- Easy check operation by operation indicator (red/green)
- Single power operates several sensors
- Convenient wiring and power line
- IP67 protection structure with water-proof cover (IP52 protection structure with protection cover)
- Supports 1-signal, 2-signal (DC 4-wire)





Pluggable screw terminal type

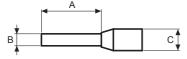
Ordering Information



Spring terminal type

- X1: It is not applied for DC 2-wire (1-signal) type of output.
- ※2: Only for cable type and connector type of M12 5-pin connector type.
- *3: Only for spring terminal type, pluggable screw terminal type of M12 5-pin connector type.

■ Terminal Specifications for Spring/Pluggable Screw Terminal Type



(unit: mm)

		Α	В	С	Applicable wire
End Sleeve	Spring terminal type	8			Signal line: AWG22 (0.30mm²)
I'm a market	Pluggable screw terminal type	8 to 10	1.3 tot 1.7	13 /1 to 3 8	Power line: AWG17 (1mm²)

G-12 Autonics

Specifications

	NPN type	PT4-2D	PT4-3DN	PT6-2D	PT6-3DN	PT8-2D	PT8-3DN					
Model	PNP type	_	PT4-3DP — PT6		PT6-3DP	<u> </u>	PT8-3DP					
Port		4-port	,	6-port		8-port						
Output type ^{*1}		2-wire (1-signal),	3-wire (1-signal)	2-wire (1-signal),	3-wire (1-signal)	2-wire (1-signal),	3-wire (1-signal)					
Power supply		12-24VDC== (10-30\	/DC==)									
Rated current 2A (per signal), 4A (per port), 10A (total)												
Leakage curre	nt	Max. 0.5mA										
Connection life	cycle	Min. 200 operations										
Insulation resi	stance	Over 50MΩ (at 500VI	DC megger)									
Dielectric strer	igth	1,500VAC 50/60Hz fo	r 1 min									
Vibration		1mm amplitude at fre	quency of 10 to 55Hz	(for 1 min) in each X,	Y, Z direction for 2 hou	rs						
Shock		500m/s2 (approx. 500	in each X, Y, Z direct	ction for 3 times								
Indicator		Power indicator: Green LED, Operation indicator: Red LED										
Environment	Ambient temp.	-25 to 75, storage: -30 to 80										
Liiviioiiiieiit	Ambient humi.	35 to 95%RH, storage	e: 35 to 95%RH									
Protection stru	cture ^{*2}	IP67 (IEC standard/w	hen mounting connec	tor, waterproof cover)	or IP52 (IEC standard	when mounting prote	ction cover)					
Material		Case: Polybutylene te	erephthalate (G15%),	General cable (gray):	Polyvinyl chloride (PV	C)						
Approval		C€										
Weight ^{*3, *4}		Approx. 700g (approx	. 660g)	Approx. 720g (appro	x. 680g)	Approx. 820g (appro	ox. 780g)					

- X1: Connect the sensor to the proper output type.
- X2: This is not applicable when connectors and protection/waterproof covers are not mounted.
 X3: The weight includes packaging. The weight in parenthesis is for unit only.
 X4: The weights are for 5m cable.

- *Environment resistance is rated at no freezing or condensation.

Туре		Cable type				Conne	Connector type					Spring type ^{×1}	termii	nal	Pluggable screw terminal type ^{×1}					
N4	NPN type	PT4- 3DN5 -		PT6- 3DN5 -	PT6- 4DN5 -		PT8- 4DN5 -		PT4- C4DN5		PT6- C4DN5		PT8- C4DN5	PT4- S3DN	PT6- S3DN⊡	PT8- S3DN	PT4- P3DN -	PT6- P3DN	PT8- P3DN -	
Model	PNP type	PT4- 3DP5 -			PT6- 4DP5 -		PT8- 4DP5 -		PT4- C4DP5		PT6- C4DP5			PT4- S3DP□	PT6- S3DP	PT8- S3DP	PT4- P3DP	PT6- P3DP	PT8- P3DP	
Port	4-port		6-port		8-port		4-port		6-port		8-port		4-port	6-port	8-port	4-port	6-port	8-port		
Output type*	2	3-wire (1-signal)	3-wire 4-wire 3-wire 4-wire 3-wire 4-wire 3-wire (1-signal) (2-signal) (1-signal) (2-signal) (1-signal)					4-wire (2-signal)		4-wire (2-signal)	3-wire	4-wire (2-signal)	3-wire							
Power supply	/	12-24\	/DC 																	
Rated curren	t	2A (pe	r signal), 4A (p	er port).	10A (to	otal)							2A (pe	r signal), 2A (p	er port)	port), 7A (total)		
Leakage curr	ent	Max. 0	.5mA																	
Current cons	umption	Max. 5	imΑ																	
Connection li	fe cycle	Min. 20	00 oper	ations																
Insulation res	sistance	Over 1	00ΜΩ (at 500\	/DC me	egger)														
Dielectric stre	ength	500VA	C 50/60	Hz for	1 min	00 /														
Vibration		3mm a	mplitud	e at fre	quency	of 10 to	55Hz	(for 1 m	in) in ea	ach X, Y	, Z dire	ction fo	r 2 houi	rs						
Shock		500m/s	s² (appr	ox. 500	in ead	ch X, Y,	Z direc	tion for	3 times											
Indicator		Power	indicate	or: Red	LED, C	peratio	n indica	tor: Gre	en LEC)										
Environment	Ambient temp.	-25 to	75, stor	age: -30	0 to 80															
Environment	Ambient humi.	35 to 8	5%RH,	storage	e: 35 to	85%RH	1													
Protection str	ructure ^{*3}	IP67 (I	EC star	ndard/w	hen mo	unting	connect	or, wate	erproof	cover) o	or IP52	(IEC sta	andard/	when m	nounting	protec	tion co	ver)		
Material			Polybut al cable						late: Po	lycarbo	nate,			Name Cover:	Plate: F	olycart tylene	erephth conate, terephthe 6 (G15	nalate (,.	
Approval		CE																		
Weight**4, **5		Approx. 1100g (approx. 900g)	Approx. 1400g (approx. 1200g)	1130g	Approx. 1430g (approx. 1230g)	1160g	Approx. 1460g (approx. 1260g)	230g	Approx. 235g (approx. 125g)	260g	Approx. 265g (approx. 155g)	Approx. 290g (approx. 180g)		Approx. 270g (approx. 140g)	292g	Approx. 314g (approx. 190g)	Approx. 280g (approx. 150g)	Approx. 302g (approx. 175g)	Approx. 334g (approx. 210g)	

- X1: Applicable cable out diameter is 10.5mm±0.3 for Spring/Pluggable screw terminal type.
- ※2: Connect the sensor to the proper output type.
- *3: This is not applicable when connectors and protection/waterproof covers are not mounted
- *4: The weight includes packaging. The weight in parenthesis is for unit only.
- %5: Cable type weights are based on 5m cable.
- XEnvironment resistance is rated at no freezing or condensation.

(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(F) Rotary Encode

(I) SSRs / Power Controllers

(J) Counters

(M) Tacho / Speed / Pulse Meters

(N) Display Units (O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

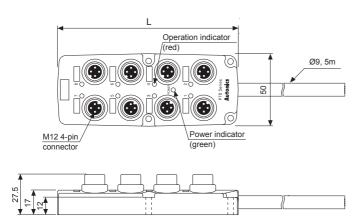
G-13 **Autonics**

Dimensions

%The below dimensions are based on 8-port.

O Cable type

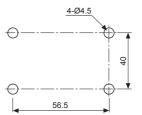
• M12 4-pin connector type



Model	L
PT4-□ □	73
PT6-□ □	98
PT8-	123

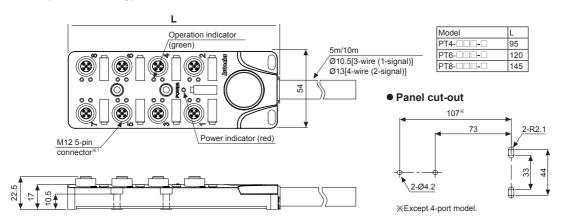
«Cable specification: Ø9, 10-wire (conductor cross section: 0.3mm², insulator diameter: Ø1.67) (unit: mm)

Panel cut-out



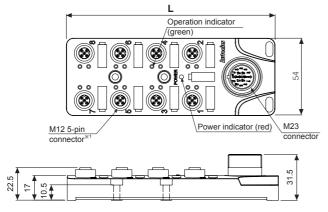
*Mounting holes are same as 4, 6, 8-port.

● M12 5-pin connector type



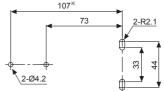
×1: When connecting L type connectors, connection direction may be different by the manufacturers of the connector.

Connector type



Model	L
PT4-C	95
PT6-C□□□	120
PT8-C	145

Panel cut-out



Except 4-port model.

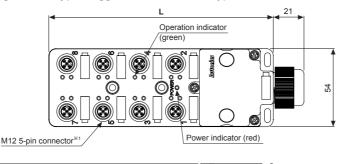
×1: When connecting L type connectors, connection direction may be different by the manufacturers of the connector.

G-14 Autonics

Dimensions

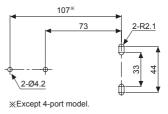
XThe below dimensions are based on 8-port.

Spring terminal type/Pluggable screw terminal type



Model	L
PT4-S□□□	105
PT4-P	105
PT6-S□□□	130
PT6-P	130
PT8-S□□□	155
PT8-P□□□-□	100

Panel cut-out



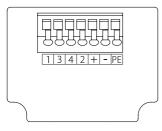
x 1: When connecting L type connectors, connection direction may be different by the manufacturers of the connector.

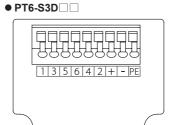
Inner Connections for Spring/Pluggable Screw Terminal Type

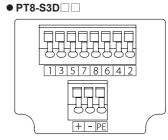
O Spring terminal type

● PT4-S3D

48.7

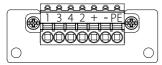




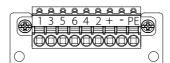


O Pluggable screw terminal type

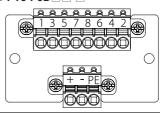
● PT4-P3D □-□







● PT8-P3D □ - □



■ Connecting Crimp Terminals for Spring/Pluggable Screw Terminal Type

Spring terminal type

Remove bolts on the terminal cover using a tool such as a screwdriver and open the cover.

- Connection
- 1) Push the end sleeve (ferrule) crimp terminal towards direction 1 to complete the connection.
- Removal
- 1) Press and hold the catch above the terminal in direction ② with a flat-head screwdriver.
- 2) Pull and remove the end sleeve (ferrule) crimp terminal towards direction 3.



O Pluggable screw terminal type

Remove bolts on the terminal cover using a tool such as a screwdriver and open the cover. Remove the terminal also as above

- Connection
- 1) Push the end sleeve (ferrule) crimp terminal towards direction 1 to complete the connection.
- Removal
- 1) Press and hold the catch above the terminal in direction ② with a flat-head screwdriver.
- 2) Pull and remove the end sleeve (ferrule) crimp terminal towards direction 3.

(A) Photoelectric Sensors

(unit: mm)

(C) Door/Area Sensors

(D) Proximity Sensors

(F) Rotary Encode

(I) SSRs / Power Controllers

(J) Counters

(M) Tacho / Speed / Pulse Meters

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

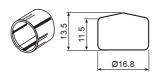
(R) Graphic/ Logic Panels

Autonics

Sold Separately

(unit: mm)

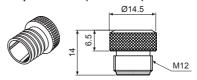
O Protection cover (CAP-PT)



XThis protection cover is used for protecting connection holes from dust or particle, etc. Please push it into hole.

XIf using protection covers, protection structure of the sensor distribution box is IP52.

○ Waterproof cover (P96-M12-1)



XThis waterproof cover is used for protecting unused connection hole from water or oil, etc.

Please tighten it when applying to the ports.

XIf using waterproof covers, protection structure of the sensor distribution box is IP67.

○ M23 connector cable (only for M12 5-pin connector)

	12-pin[3-wire (1-si	gnal)]		19-pin[4-wire (2-signal)]							
Model	CLDH12C -040	CLDH12C -060	CLDH12C -080	CLDH19C -040							
Dimensions		(unit: mm)									
Pin arrangement		① ③ ⑥ ② ⑩ ② ⑦ ③ ⑪ ⑥ ④ ⑤	+ +		0 12 ft 2 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7						
Cable length ^{×1}	4m	6m	8m	4m	6m	8m					
Applied model	PT4-C3DN5, PT4- PT6-C3DN5, PT6- PT8-C3DN5, PT8-	-C3DP5, -C3DP5,	12	PT4-C4DN5, PT4-C4DP5, PT6-C4DN5, PT6-C4DP5, PT8-C4DN5, PT8-C4DP5							
	Pin no.	Cable color	AWG	Pin no.	Cable color	AWG					
	1	White		1	Purple						
	2	Green		2	Red						
	3	Yellow		3	Gray	AWG22					
	4	Gray	7,,,,,,,,	4	Red/Blue						
	5	Pink	AWG22	5	Green						
	6	Red		6	Blue						
	7	Black		7	Gray/Pink						
	8	Purple		8	White/Green						
Connection	9	Blue		9	White/Yellow	AWG22					
cable	10	T—	7	10	White/Gray						
	11	Brown	AWG17	11	Black						
	12	Green/Yellow		12	Green/Yellow	AWG17					
		·	•	13	Yellow/Brown						
				14	Brown/Green						
				15	White	AWG22					
				16	Yellow						
				17	Pink						
				18	Gray/Brown						
				19	Brown	AWG17					

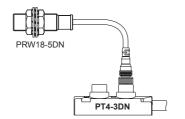
X1: Cable length can be customized.

G-16 **Autonics**

■ Example of Connections

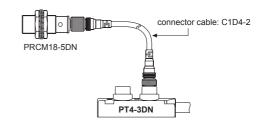
O Connection with cable type sensor

It is available to connect a cable type sensor proximity sensor (PRW Series) with a sensor distribution box directly. When installation distance is longer, use a connector cable.



O Connection with connector type sensor

When connecting a connector type proximity sensor (PRCM Series) with a sensor distribution box, use only connector cable.



(A) Photoelectric Sensors

(B) Fiber Optic

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure

(F) Rotary Encoders

■ Connectable Autonics Proximity Sensors, Photoelectirc Sensors, Door/Area Sensors

Sensor distribution box	Input logic	Proximity sensor		Photoelectric sensor	Door/Area sensor	Connection method
		PRCMT12-2/4DO, DC PRCMT18-5/8DO, DC PRCMT30-10/15DO, DC	PRDCMT12-4/8DO, DC PRDCMT18-7/14DO, DC PRDCMT30-15/25DO, DC			Use connector cable
PT□-2D	DC 2-wire	PRWT12-2/4DO, DC PRWT18-5/8DO, DC PRWT30-10/15DO, DC	PRDWT12-4/8DO, DC PRDWT18-7/14DO, DC PRDWT30-15/25DO, DC	_		Connect directly, Use connector cable
PT3DN	N5-□, NPN output	PRCM12-2/4DN, DN2 PRCM18-5/8DN, DN2 PRCM30-10/15DN, DN2 PRCML18-5/8DN, DN2 PRCML30-10/15DN, DN2	PRDCM12-4/8DN, DN2 PRDCM18-7/14DN, DN2 PRDCM30-15/25DN, DN2 PRDCML12-4/8DN, DN2 PRDCML18-7/14DN, DN2 PRDCML30-15/25DN, DN2	BRP3M-MDT-C BR3M-MDT-C	_	Use connector cable
		PRW12-2/4DN, DN2 PRW18-5/8DN, DN2 PRW30-10/15DN, DN2 PRWL18-5/8DN, DN2 PRWL30-10/15DN, DN2	PRDW12-4/8DN, DN2 PRDW18-7/14DN, DN2 PRDW30-15/25DN, DN2 PRDWL12-4/8DN, DN2 PRDWL18-7/14DN, DN2 PRDWL30-15/25DN, DN2	_		Connect directly, Use connector cable
PT□-3DP	DC 3-wire	PRCM12-2/4DP, DP2 PRCM18-5/8DP, DP2 PRCM30-10/15DP, DP2 PRCML18-5/8DP, DP2 PRCML30-10/15DP, DP2	PRDCM12-4/8DP, DP2 PRDCM18-7/14DP, DP2 PRDCM30-15/25DP, DP2 PRDCML12-4/8DP, DP2 PRDCML18-7/14DP, DP2 PRDCML30-15/25DP, DP2	BRP3M-MDT-C-P BR3M-MDT-C-P	_	Use connector cable
PT::-3DP5-::: PT:::-::::3DP5	PNP output type	PRW12-2/4DP, DP2 PRW18-5/8DP, DP2 PRW30-10/15DP, DP2 PRWL18-5/8DP, DP2 PRWL30-10/15DP, DP2	PRDW12-4/8DP, DP2 PRDW18-7/14DP, DP2 PRDW30-15/25DP, DP2 PRDWL12-4/8DP, DP2 PRDWL18-7/14DP, DP2 PRDWL30-15/25DP, DP2	_		Connect directly, Use connector cable
PT::-4DN5-::; PT:::-:::4DN5	DC 4-wire NPN output type			BRP100-DDT-C, BR100DDT-C, BRP400DDT-C, BR400DDT-C, BRP200DDTN-C, BRP200DDTN-C,	BWC40-□H, HD BWC80-□H, HD BW20-□, BW40-□	Connect directly, Use connector cable
PT::-4DP5-::, PT::-:::4DP5	DC 4-wire PNP output type	<u> </u>		BRP100-DDT-C-P, BR100-DDT-C-P, BRP400DDT-C-P, BR400DDT-C-P, BRP200DDTN-C-P, BR200DDTN-C-P	BW20-□P, BW40-□P	Connect directly, Use connector cable

XStandard cable type sensors can also connect a sensor distribution box by using plug type connector cable.

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

ners

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

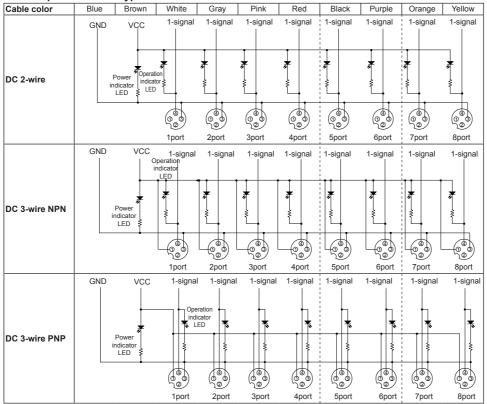
(S) Field Network Devices

(T) Software

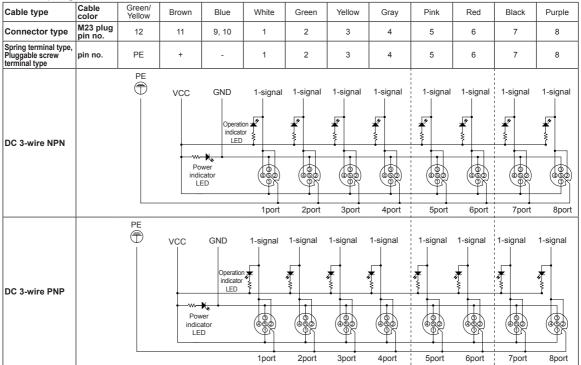
Autonics G-17

Connections

M12 4-pin connector type



• 3-wire (1-signal)



G-18 Autonics

Connections

M12 5-pin connector type

• 4-wire (2-signal)

	(Z-Sigila	_	_													_			_	
Cable	Cable	Green	Brown	Blue	White	Gray/	Green	Red/	Yellow	White/	Gray	Brown/	Pink	White/	Red	Yellow/	Black	White/	Purple	Gray/
type	color	/Yellow	_			Pink		Blue		Green	,	Green		Yellow	- 1	Brown		Gray	. , .	Brown
Connector		12	19	6	15	7	5	4	16	8	3	14	17	9	2	13	11	10	1	18
type	pin no.																			
DC 4-wire NPN		PE -	VCC Por indic LE	indi LI Wer eator	ration pattern and the second	2-signal	1-signal	2-signal	-w-	2-signal	***	2-signal	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	è 2-signal	(a) 1-signal	2-signal	**	2-signal	1-signal	2-signal
					1p	ort	2р	ort	3р	ort	4p	ort	5р	ort	6р	ort	7p	ort	8p	ort
		PE	vcc	indi	ration cator	2-signal	1-signal	2-signal	1-signal	2-signal	1-signal	2-signal	1-signal	2-signal	1-signal	2-signal	1-signal	2-signal	1-signal	2-signal
DC 4-wire					*	**	**	**	**	**	**	**	**	**	**	**	**	**=	*	**
DC 4-wire PNP			Por indic LE	wer eator	**	***	**************************************	1	*** (4)	1	1	**************************************	466	1		*				1111

Cautions during Use

- 1. This connection box is only for DC. Do not use this unit for AC.
- 2. Use DC 2-wire, DC 3-wire, DC 4-wire separately. DC 3-wire, DC 4-wire are separated by NPN type and PNP type.
- 3. Do not use the same conduit with cord of this unit and electric power line and power line. Also avoid the same connection.
- 4. Be sure that wire power cable (brown: +, blue: -) properly.
- 5. Check the voltage variation range of power not to over the rated specifications for power input.
- 6. In case of M12 4-pin connector type, the power indicator (green LED) does not operate when polarity is not correctly connected.
- 7. In case of M12 5-pin connector type, Tighten the screws and connector with the proper tightening strength. (M4 mounting screw: max. 1.2N·m / M12 Connector: 0.6 to 0.7N·m / M23 Connector: 2.0 to 2.5N·m)
 - When tightening is bad, protection is not effective and it may loose by vibration.
- 8. If transceiver is close to wire connections, it may cause malfunction.
- 9. When take out the connector from the box, cut off the power.
- 10. It might cause malfunction, if particle of metal etc. inflow in to engaging.
- 11. Do not use this unit when external force loaded on contact block and connection of cover. It may cause loss of efficiency of protection.
- 12. Follow the connections when wiring the signals. After connecting loads, operate proximity sensors.
- 13. Check the operation indicator when operating the sensors.
- 14. Do not use in place there are water or oil etc.
- 15. Main body is made by plastic, therefore do not put heavy load on this product.
- 16. Please avoid below environment for long-term storage.
 - 1 Lots of dust or high humidity
 - 2 Ammonia or sulfide gas

(A) Photoelectric Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(I) SSRs / Power Controllers

(J) Counters

(M) Tacho / Speed / Pulse Meters

(P) Switching Mode Power Supplies

(Q) Stepper Motors

(R) Graphic/ Logic Panels

G-19 **Autonics**

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