Cylindrical Type Photoelectric Sensor

Features

[Common]

- Excellent noise immunity and minimal influence from ambient light
- Power/Output reverse polarity protection circuit, output short over current protection circuit
- Mutual interference prevention function (except through-beam type)
- · Sensitivity adjuster
- . Light ON, Dark ON switchable by control wire

[BRQT, BRQM, BRQP Series (front sensing type)]

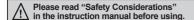
- Various materials: Plastic, Metal (Ni-plated Brass), Stainless steel 316L
- Long sensing distance: 30m (through-beam type)
- Body size BRQT, BRQM: Standard

BRQP: Standard, Short body

• Protection structure - BRQT: IP67 (IEC standard), IP69K (DIN standard) BRQM, BRQP: IP67 (IEC standard)

[BRQPS Series (side sensing type)]

Protection structure: IP67 (IEC standard)



Ordering Information

5 | M

BRQ



[BRQT, BRQM, BRQP Series (front sensing type)]



SUS316L Standard



Ni-plate Brass Standard



BRQP-A Plastic Standard



Plastic Short-body



Reflector (MS-2A)



Reflective tape (MST series)

Standard

[BRQPS Series (side sensing type)]



No mark mm

Number | Sensing distance





Reflective tape (MST series)

(MS-2S) XThe model name with '-C' is connector type. XReflective tape (MST series) is sold separately.

Front sensing type | Side sensing type Control output No mark NPN open collector output Р PNP open collector output Connection No mark Cable type С Connector type Appearance Α Standard В Short body Emitter/Receiver Fmitter Receiver Output Transistor output Power supply D DC power Т Through-beam type Sensing type P Retroreflective type (built-in polarizing filter) D Diffuse reflective type

Sensing distance unit

Sensing distance

		Form of sensing		Front sensing type	_
	l		S		Side sensing type
Case material		e material	Т	Stainless steel 316L	_
l	Ouo		М	Brass, Ni-plate	_
Item			Р	Plastic	Plastic
			BRQ	Cylindrical type photo	electric sensor
Thie ie	only f	for BROP Series		•	

Cylindrical Type Photoelectric Sensor (front sensing type)

Specifications

			ν	-,						_
1 2		ctor output	BRQ□5M- TDT□-□	BRQ□20M- TDT□-□	BRQ□30M- TDT□-□	BRQ□3M- PDT□-□	BRQ□100- DDT□-□	BRQ□400- DDT□-□	BRQ□1M- DDT□-□	
Ψ	PNP o		BRQ□5M- TDT□-□-P	BRQ□20M- TDT□-□-P	BRQ□30M- TDT□-□-P	BRQ□3M- PDT□-□-P	BRQ□100- DDT□-□-P	BRQ□400- DDT□-□-P	BRQ□1M- DDT□-□-P	CONTROLLERS
Sensing type		pe	Through-beam	type		Retroreflective type (built-in polarizing filter)	Diffuse reflective			MOTION DEVICES
Sens	sing dis	stance	5m	20m	30m	3m ^{×1}	100mm ^{*2}	400mm ^{×2}	1m ^{×3}	
	Sensing target		Opaque materia	als of min. Ø7mn	1	Opaque materials of min. Ø75mm	Opaque, transi	lucent materials		SOFTWARE
	eresis		<u> </u>	— Max. 20% at rated sensing distance						
	ponse		Max. 1ms							
_	er sup	. ,		0% (ripple P-P: r	nax.10%)					
Curr	ent cor	nsumption	Emitter/Receive	er: max. 20mA		Max. 30mA	T	ı		
	t sourc		Red LED (660n				Infrared LED (850nm)	Red LED (660	Onm)	
		,	Sensitivity adjus							
Ope	ration ı				by control wire (w	vhite)				(A) Photoelectric
Cont	trol out	tput	· Load voltage:		· Load current: ma					Sensors
			Power/Output reverse polarity protection circuit, output short over current protection circuit, interference prevention function (except through-beam type)							(B) Fiber Optic Sensors
_	Indicator			Operation indicator: yellow LED, stability indicator: green LED (emitter power indicator of through-beam type: red LED)						
Connection			71 /	Cable type, connector type						
Insulation resistance			Over 20MΩ (at 500VDC megger)							(C) LiDAR
	e imm		±240V the square wave noise (pulse width:1μs) by the noise simulator							
_		strength	1,000VAC 50/60Hz for 1 minute							(D)
Vibra			1.5mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours							Door/Area Sensors
Shoo			500m/s² (approx. 50G) in X, Y, Z direction for 3 times							
함	Ambie			Sunlight: max. 11,000lx, Incandescent lamp: max. 3,000lx (receiver illumination)						
N N	Ambie	ent temp.		rage: -30 to 70°C						Vision Sensors
ш-	Ambie	ent humi.		storage: 35 to 85		. "			- "	
Prote	ection	structure	BRQT Series: IP67 (IEC standard), IP69K (DIN standard) BRQM, BRQP Series: IP67 (IEC standard)							(F)
Mate	erial		Case: BRQT Series - stainless steel 316L / BRQM Series - brass, Ni-plate / BRQP Series - polycarbonate Lens, Lens cover: polymethyl methacrylate acrylic						Proximity Sensors	
Cabl	Cable**4 Cable type		(AWG26, core c		rough-beam type: m, number of cores	s: 20, insulator ou	ut diameter: Ø1r	nm)		(G) Pressure
Acce	essory	Individual				Reflector (MS-2A)	1			Sensors
Acce	SSULY			4, adjustment sc	rewdriver	M18 fixing nut: 2	2, adjustment sc	rewdriver		4.0
Appr	oval		(€ c 91 0s							(H) Rotary
t*s	Cable type		BRQP-A: appro	1-A: approx. 220g ox. 160g (approx.	. 110g)	BRQT-A/BRQM- BRQP-A: approx	x. 120g (approx.	. 60g)		(I)
Weight*5	Conne	ector type	BRQT-A/BRQM BRQP-A: appro	ox. 150g (approx. 1-A: approx. 160g ox. 110g (approx.	g (approx. 50g) . 25g)	BRQP-B: approx BRQT-A/BRQM- BRQP-A: approx	-A: approx. 1400 x. 110g (approx.	g (approx. 30g) . 15g)		Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets
)				ox. 100g (approx.		BRQP-B: approx			should be set over	

x 1: The sensing distance is specified with using the MS-2A reflector. The distance between the sensor and the reflector should be set over 0.1m. When using reflective tapes, the reflectivity will vary by the size of the tape. Please refer to the 🗉 Reflectivity by Reflective Tape Model' table before using the tape.

SENSORS

A-109 **Autonics**

^{%2:} Non-glossy white paper 100×100mm.

^{※3:} Non-glossy white paper 300×300mm.

^{※4:} M12 connector cable is sold separately.

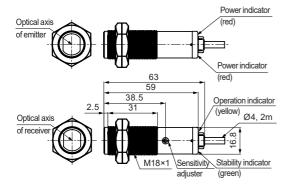
X5: The weight includes packaging. The weight in parenthesis is for unit only.

XThe temperature or humidity mentioned in Environment indicates a non freezing or condensation.

Dimensions

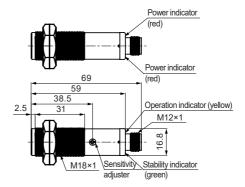
Through-beam type

- BRQT□-TDTA(-P)
- BRQM□-TDTA(-P)

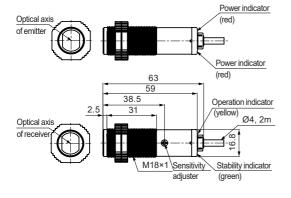


(unit: mm)

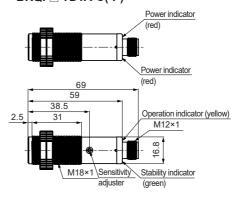
- BRQT□-TDTA-C(-P)
- BRQM□-TDTA-C(-P)



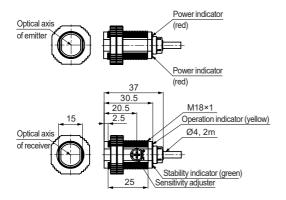
BRQP□-TDTA(-P)



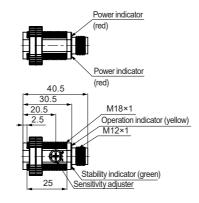
• BRQP□-TDTA-C(-P)



BRQP□-TDTB(-P)

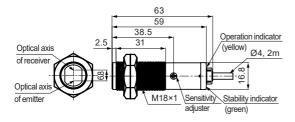


BRQP□-TDTB-C(-P)

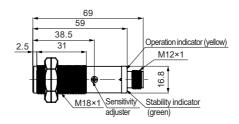


A-110 Autonics

- BRQT3M-PDTA(-P)/BRQM3M-PDTA(-P)
- BRQT□-DDTA(-P)/BRQM□-DDTA(-P)



- BRQT3M-PDTA-C(-P)/BRQM3M-PDTA-C(-P)
- BRQT□-DDTA-C(-P)/BRQM□-DDTA-C(-P)



SENSORS

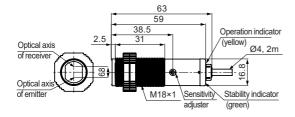
(unit: mm)

CONTROLLERS

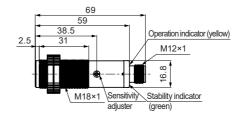
MOTION DEVICES

SOFTWARE

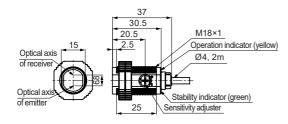
- BRQP3M-PDTA(-P)
- BRQP□-DDTA(-P)



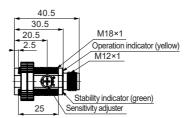
- BRQP3M-PDTA-C(-P)
- BRQP -DDTA-C(-P)



- BRQP3M-PDTB(-P)
- BRQP□-DDTB(-P)



- BRQP3M-PDTB-C(-P)
- BRQP□-DDTB-C(-P)



(A) Photoelectric Sensors

> (B) Fiber Optic Sensors

(C) LiDAR

(D) Door/Area Sensors

(E) Vision Sensors

(F) Proximity Sensors

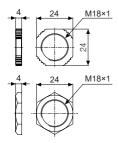
(G) Pressure Sensors

(H) Rotary Encoders

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

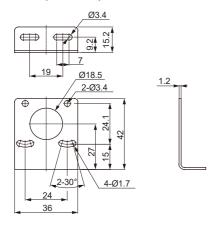
BRQ Series

• M18 fixing nut



Sold separately

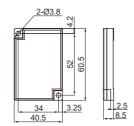
Bracket(BK-BR-A)



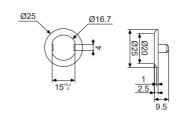
Reflector

(unit: mm)

· MS-2A

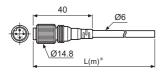


• Fixing cap (BK-BR-B, only for BRQPU-UB-U)

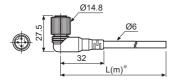


• Connection cable

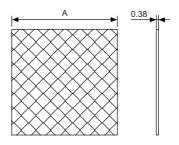
· CIDH4-



· CLDH4-



Reflective tape



	(unit: mm)
Model	A
MST-50-10	□50
MST-100-5	□100
MST-200-2	□200

SENSORS

(B) Fiber Optic

Sensors

(C) LiDAR

(D) Door/Area Sensors

(E)

Vision Sensors

(F) Proximity Sensors

Pressure Sensors

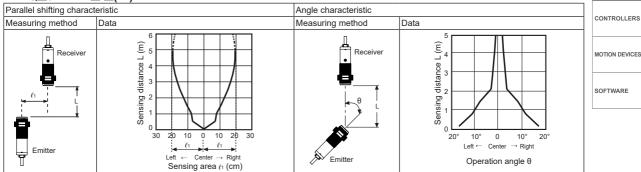
(H) Rotary Encoders

Boxes/ Sockets

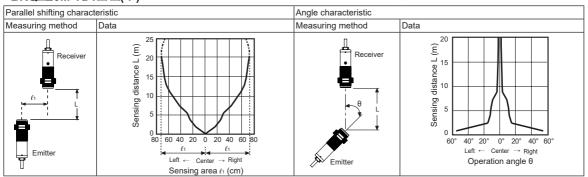
■ Feature Data

Through-beam type

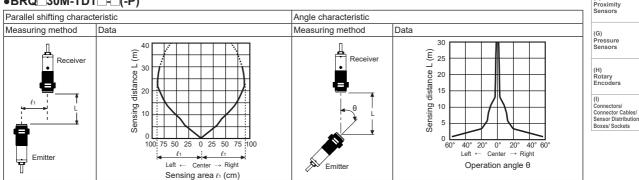
•BRQ□5M-TDT□-□(-P)



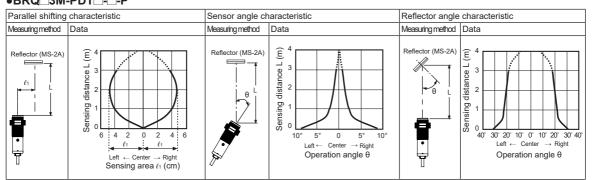
BRQ□20M-TDT□-□(-P)



BRQ□30M-TDT□-□(-P)

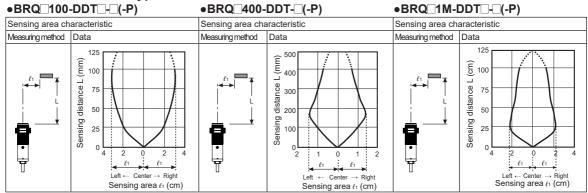


Retroreflective type •BRQ 3M-PDT - P



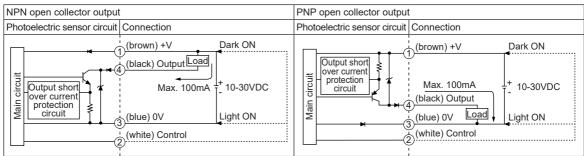
Autonics

O Diffuse reflective type



■ Control Output Circuit Diagram

• Through-beam/Retroreflective/Diffuse reflective type



- ※If short-circuit the control output terminal or supply current over the rated specification, normal control signal is not output due to the output short over current protection circuit.

Connections for Connector Part



M12 Connector pin

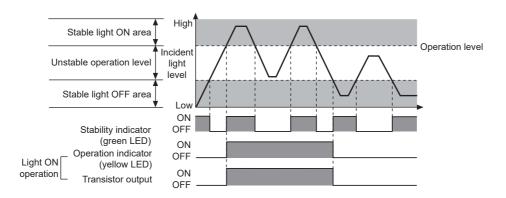
	0-1-1-	Application			
Pin No.	Cable	Diffuse/	Through-beam type		
	COIOI	Retroreflective type	Emitter	Receiver	
1	Brown	30VDC	30VDC	30VDC	
2	White	CONTROL	N.C	CONTROL	
3	Blue	GND	GND	GND	
4	Black	OUTPUT	N C	OUTPUT	

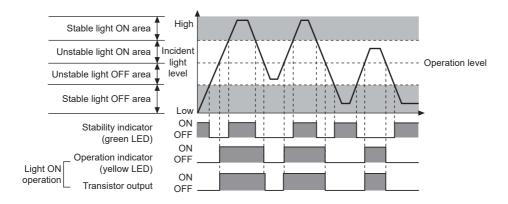
Connector cable (sold separately)
 XPlease refer to the connector
 cable part.

A-114 Autonics

Operation Timing Diagram

Through-beam type





**The waveforms of 'Operation indicator' and 'Transistor output' are for Light ON operation. They are opposite operation for Dark ON operation. CONTROLLERS

MOTION DEVICES

SOFTWARE

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) LiDAR

(D) Door/Area Sensors

> (E) Vision Sensors

Proximity Sensors

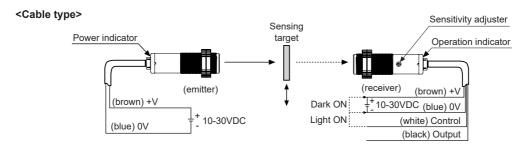
(G) Pressure Sensors

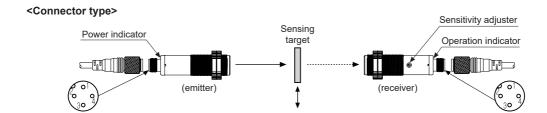
(H) Rotary Encoders

Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets

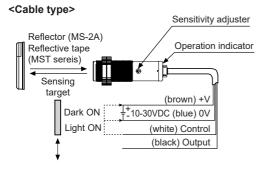
Connections

• Through-beam type

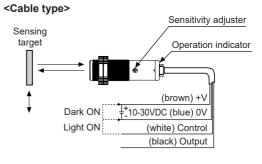






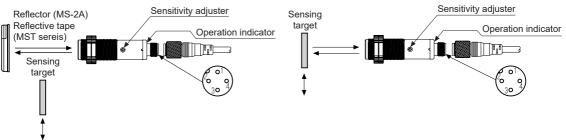


• Diffuse reflective type



<Connector type>

<Connector type>



A-116 Autonics

Installation and Adjustment

Install the sensor to the desired place and check the connections. Supply the power to the sensor and adjust the optical axis and the sensitivity as following.

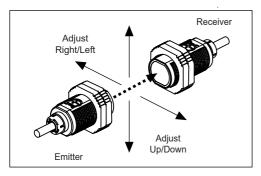
When using the reflective type photoelectric sensors closely over three units, it may result in malfunction due to mutual interference.

When using the through-beam type photoelectric sensors closely over two units, it may result in malfunction due to mutual interference.

When installing the product, tighten the screw with a tightening torque of 14.7N·m for BRQT/BRQM and 0.39N·m for BRQP.

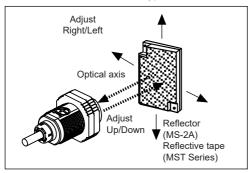
Through-beam type

- Supply the power to the photoelectric sensor, after setting the emitter and the receiver facing each other.
- Set the receiver in center of position in the middle of the operation range of indicator adjusting the receiver or the emitter right and left, up and down.
- 3. After adjustment, check the stability of operation putting the object at the optical axis.



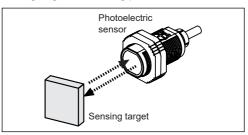
Retroreflective type

- Supply the power to the photoelectric sensor, after setting the photoelectric sensor and the reflector (MS-2A) or reflective tape in face to face.
- Set the photoelectric sensor in the position which indicator turns on, as adjusting the reflector or the sensor right and left, up and down.
- 3. Fix both units tightly after checking that the unit detects the target.
- **XSensitivity adjustment**
 - : Refer to the diffuse reflective type's.



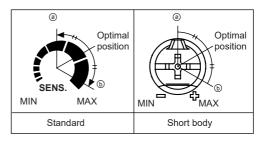
O Diffuse reflective type

 The sensitivity should be adjusted depending on a sensing target or mounting place.



- Set the target at a position to be detected by the beam, then turn the sensitivity adjuster until position

 where the operation indicator turns ON from min. position of the Sensitivity adjuster.
- 3. Take the target out of the sensing area, then turn the Sensitivity adjuster until position (a) where the the operation indicator turns ON. If the indicator dose not turn ON, max. position is (a).
- 4. Set the sensitivity adjuster at the center of two switching position ⓐ, ⓑ.



Reflectivity by Reflective Tape Model

Model	Standard	Short body
MST-50-10 (50×50mm)	40%	40%
MST-100-5 (100×100mm)	50%	80%
MST-200-2 (200×200mm)	80%	85%

- XThis reflectivity is based on the reflector (MS-2A).
- ※Reflectivity may vary depending on usage environment and installation conditions.

The sensing distance and minimum sensing target size increase as the size of the tape increases.

Please check the reflectivity before using reflective tapes

※For using reflective tape, installation distance should be min. 20mm. SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) LiDAR (D) Door/Area

Sensors

(E) Vision Sensors

Proximity Sensors

Pressure Sensors (H) Rotary Encoders

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

Cylindrical Type Photoelectric Sensor (side sensing type)

Specifications

	NPN open	BRQPS10M- TDTA(-C)	BRQPS20M- TDTA(-C)	BRQPS3M- PDTA(-C)	BRQPS100- DDTA(-C)	BRQPS400- DDTA(-C)	BRQPS700- DDTA(-C)	
1 2	PNP open	BRQPS10M- TDTA(-C)-P	BRQPS20M- TDTA(-C)-P	BRQPS3M- PDTA(-C)-P	BRQPS100- DDTA(-C)-P	BRQPS400- DDTA(-C)-P	BRQPS700- DDTA(-C)-P	
		Through-heam type		Retroreflective type (built-in polarizing filter)	Diffuse reflective type		2217(0)1	
Sensing distance		10m	20m	3m ^{×1}	100mm ^{×2}	400mm ^{×2}	700mm ^{×3}	
Sensing target		Opaque materials of min. Ø7mm		Opaque materials of min. Ø75mm	Opaque, translucent materials			
Ну	steresis	— Max. 20% of maximum sensing distance						
Re	sponse time	Max. 1ms						
Po	wer supply	10-30VDC== ±10%	(ripple P-P: max. 1	0%)				
Cu	rent consumption	Emitter/Receiver: n	nax. 20mA	Max. 30mA				
Lig	ht source	Red LED (660nm)						
Se	nsitivity adjustment	Sensitivity adjuster						
Op	eration mode	Selectable Light Of	N or Dark ON by co	ntrol wire (white)				
Control output		NPN or PNP open collector output Load voltage: max. 30VDC Load current: max. 100mA Residual voltage: max. 2VDC						
Protection circuit		Power/Output reverse polarity protection circuit, output short over current protection circuit, interference prevention function (except through-beam type)						
Indicator		Operation indicator: yellow LED, stability indicator: green LED (emitter power indicator of through-beam type: red LED)						
Connection		Cable type, connec	tor type					
Insulation resistance		Over 20MΩ (at 500VDC megger)						
No	se immunity	±240V the squre wave noise (pulse width: 1μs) by the noise simulator						
Dielectric strength		1,000VAC 50/60Hz for 1 minute						
Vib	ration	1.5mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours						
Sh		500m/s² (approx. 50G) in X, Y, Z directions for 3 times						
Environ-	_ Ambient illu.	Sunlight: max.11,000lx, incandescent lamp: 3,000lx (receiver illumination)						
Ĭĕ	Ambient temp.	-25 to 60°C, storage: -30 to 70°C						
Ш	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH						
Pro	tection structure	IP67 (IEC standard)						
Ма	terial	Case: polycarbonate, lens, lens cover: polymethyl methacrylate acrylic						
Cable ^{**4}		Ø4mm, 4-wire, 2m (emitter of through-beam type: Ø4mm, 2-wire, 2m) (AWG26, core diameter: 0.52mm, number of cores: 20, insulator out diameter: Ø1mm)						
Individual		_		Reflector (MS-2S)	_			
ACC	Common	M18 fixing nut: 4, adjustment screwdriver M18 fixing nut: 2, adjustment screwdriver						
Ap	oroval	(€ c % us						
We	ght Cable type	Approx. 170g (approx. 120g) Approx. 130g (approx. 70g)						
₩5		Approx. 120g (appr		Approx. 120g (appr				
>/ 1	×1. The sensing distance is specified with the MS-2S reflector. The distance between the sensor and the reflector should be set over 0.1m							

A-118 Autonics

^{%2:} Non-glossy white paper 100×100mm.

X3: Non-glossy white paper 200×200mm.

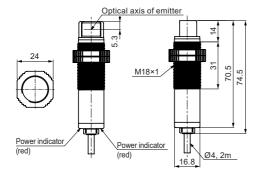
X4: M12 connector cable is sold separately.

X5: The weight includes packaging. The weight in parenthesis is for unit only.

XThe temperature and humidity mentioned in Environment indicates a non freezing or condensation.

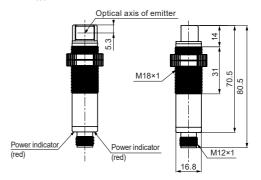
Dimensions

- **◎** Through-beam type
- BRQPS□-TDTA(-P)
- ·Emitter



• BRQPS□-TDTA-C(-P)

· Emitter



(A) Photoelectric Sensors

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(unit: mm)

(B) Fiber Optic Sensors

(C) LiDAR

(D) Door/Area Sensors

(E)

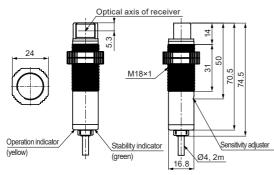
(F)
Proximity
Sensors

(G) Pressure Sensors

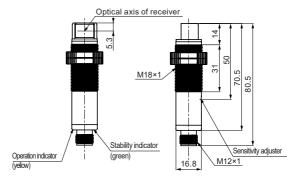
(H) Rotary Encoders

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

·Receiver

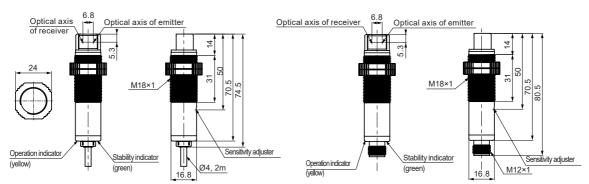


·Receiver



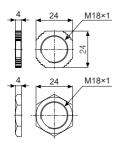
- BRQPS□-DDTA(-P)
- BRQPS3M-PDTA(-P)

- BRQPS□-DDTA-C(-P)
- BRQPS3M-PDTA-C(-P)

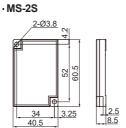


BRQ Series

• M18 fixing nut



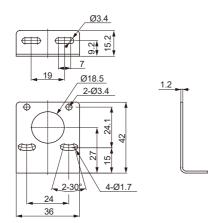
Reflector



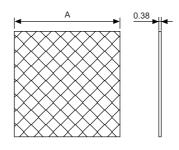
(unit: mm)

⊚ Sold separately

• Bracket(BK-BR-A)



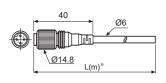
Reflective tape



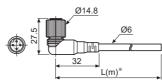
	(unit: mm)
Model	Α
MST-50-10	□50
MST-100-5	□100
MST-200-2	□200

• Connection cable









%Specification of connector cable: Ø6mm, 4-wire, 2m/3m/5m/7m
(AWG22, core diameter: 0.08mm, number of cores: 60, insulator out diameter: Ø1.65mm)

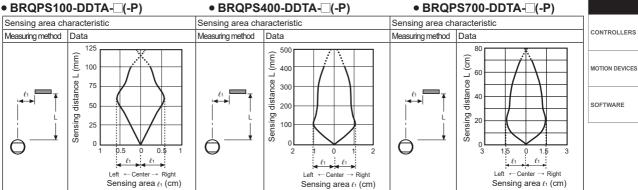
A-120 Autonics

■ Feature Data

O Diffuse reflective type

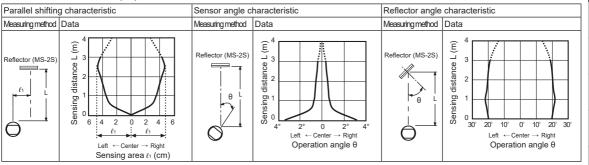
• BRQPS400-DDTA-□(-P)

BRQPS700-DDTA-□(-P)



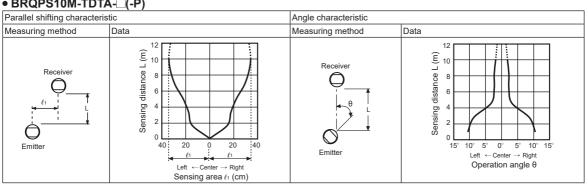
Retroreflective type

BRQPS3M-PDTA-□(-P)

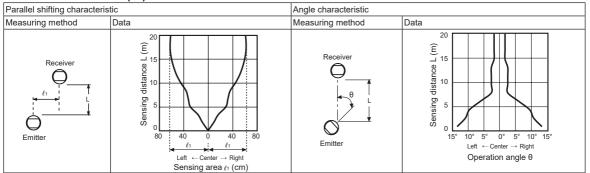


O Through-beam type

BRQPS10M-TDTA-□(-P)



BRQPS20M-TDTA-□(-P)



SENSORS

(B) Fiber Optic Sensors

(C) LiDAR

(D) Door/Area Sensors

(E) Vision Sensors

Proximity Sensors

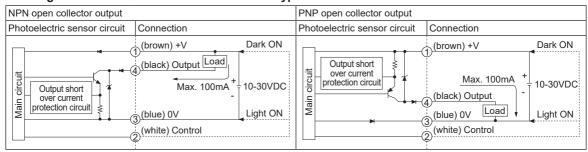
Pressure Sensors

(H) Rotary Encoders

Connectors/ Connector Cables/ Sensor Distribution Boxes/ Sockets

Control Output Circuit Diagram

• Through-beam/Retroreflective/Diffuse reflective type



Connections for Connector Part



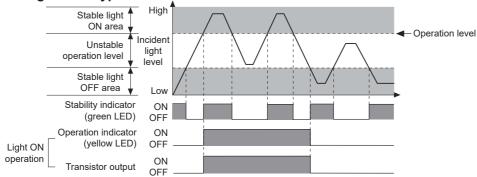
M12 Connector pin

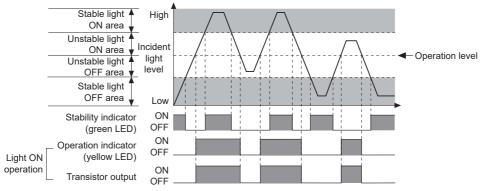
	Cable color	Application			
Pin No.		Diffuse/	Through-beam	Through-beam type	
		Retroreflective type	Emitter	Receiver	
1	Brown	30VDC	30VDC	30VDC	
2	White	CONTROL	N.C	CONTROL	
3	Blue	GND	GND	GND	
4	Black	OUTPUT	N.C	OUTPUT	

Connector cable (sold separately)
 ※Please refer to the connector cable part.

Operation Timing Diagram

Through-beam type

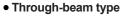


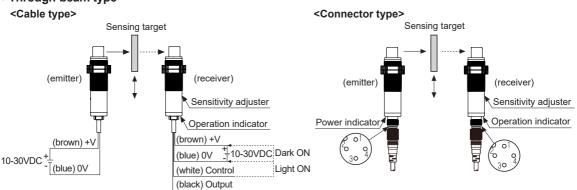


**The waveforms of 'Operation indicator' and 'Transistor output' are for Light ON operation. The waveforms are reversed in Dark On operation.

A-122 Autonics

Connections





CONTROLLERS

MOTION DEVICES

SOFTWARE

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

> (C) LiDAR

(D) Door/Area Sensors

(E) Vision Sensors

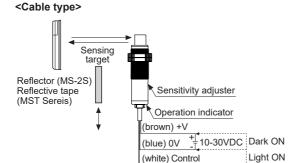
(F) Proximity Sensors

(G) Pressure Sensors

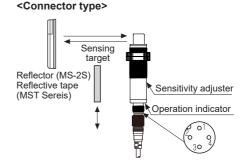
(H) Rotary Encoders

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

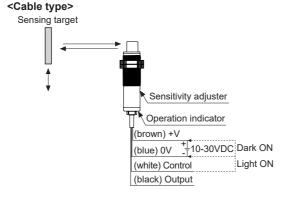
Retroreflective type

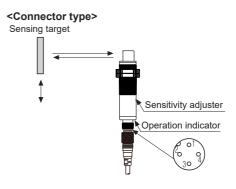


(black) Output



Diffuse reflective type





Autonics A-12:

Installation and Adjustment

Install the sensor to the desired place and check the connections.

Supply the power to the sensor and adjust the optical axis and the sensitivity as following.

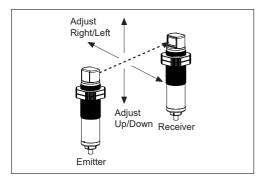
When using the reflective type photoelectric sensors closely over three units, it may result in malfunction due to mutual interference.

When using the through-beam type photoelectric sensors closely over two units, it may result in malfunction due to mutual interference.

When installing the product, tighten the fixing nuts with a tightening torque of $0.39N \cdot m$.

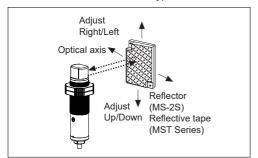
Through-beam type

- Supply the power to the photoelectric sensor, after setting the emitter and the receiver facing each other.
- Set the receiver in center of position in the middle of the operation range of indicator adjusting the receiver or the emitter right and left, up and down.
- 3. After adjustment, check the stability of operation putting the object at the optical axis.
- XIf the sensing target is translucent body or smaller than Ø7mm, it can be missed by sensor cause light penetrate it.



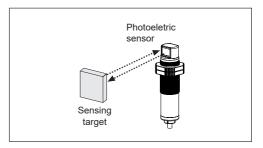
Retroreflective type

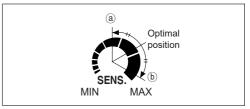
- Supply the power to the photoelectric sensor, after setting the photoelectric sensor and the reflector (MS-2S) or reflective tape in face to face.
- Set the photoelectric sensor in the position which indicator turns on, as adjusting the reflector or the sensor right and left, up and down.
- Fix both units tightly after checking that the unit detects the target.
- ※Sensitivity adjustment
 - : Refer to the diffuse reflective type's.



O Diffuse reflective type

- 1. The sensitivity should be adjusted depending on a sensing target or mounting place.
- Set the target at a position to be detected by the beam, then turn the sensitivity adjuster until position (a) where the operation indicator turns ON from min. position of the sensitivity adjuster.
- Take the target out of the sensing area, then turn the sensitivity adjuster until position (§) where the the operation indicator turns ON.
 - If the indicator dose not turn ON, max. position is **(6)**.
- 4. Set the sensitivity adjuster at the center of two switching position ⓐ, ⓑ.





Reflectivity by Reflective Tape Model

MST-50-10 (50×50mm)	25%
MST-100-5 (100×100mm)	30%
MST-200-2 (200×200mm)	35%

- ※This reflectivity is based on the reflector (MS-2S).
- ※Reflectivity may vary depending on usage environment and installation conditions.

The sensing distance and minimum sensing target size increase as the size of the tape increases.

Please check the reflectivity before using reflective tanes

%For using reflective tape, installation distance should be min 20mm

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