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NEW

OMRON

Valve Sensors



Easily Detect Whether a Fluid Control Valve is Open or Closed with One Sensor.

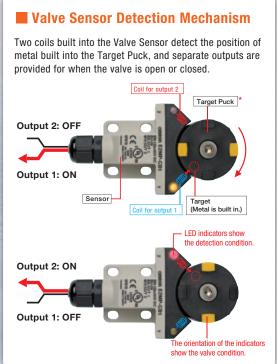




Valve Sensors E2MP

Detect Whether a Valve Is Open or Closed by Mounting Directly on an Actuator





Concerned about installation work?

The E2MP enables easy mounting with greatly reduced installation work.

Detection section design required every time the valve changes?

Just select the Valve Sensor and the Target Puck.

Hard to see whether the valve is open or closed at the worksite?

Easy to see if the valve is open or closed.

The design of the mounting sections of the Valve Sensors and Accessories conform to the VDI/VDE3845 (NAMUR) standard. The Valve Sensors are specially designed to detect valve condition, so the previously required assembly and adjustment work is no longer necessary, greatly reducing installation work.

Note: The VDI/VDE3845 (NAMUR) is an interface standard for valve actuators.

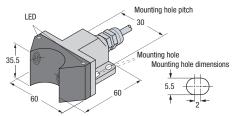
In addition to Target Pucks with specifications for fully closed and Fully open (0°: closed, 90°: open), the product lineup also includes E2MP-CA \square Target Pucks applicable for intermediate opening (0°: closed, 0° to 90°: open), and E2MP-SA \square Target Pucks for mounting to a wide variety of actuator sizes up to a maximum diameter of 85 mm.

Indicators on the Valve Sensor (LED) and the Turget Puck* instantly show the valve condition for each confirmation onsite. Two colors of LED indicators, yellow and red, are provided on the Sensors.

Rating / Performance

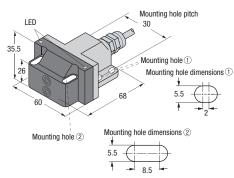
E2MP-C Series

(for shafts with a 30-mm diameter)



E2MP-S Series

(for shafts with 35 to 85 mm diameter)

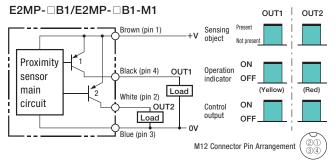


Note: For information on the shaft diameter, refer to the mounting dimensions on the next page.

	It	em	E2MP-C Series	E2MP-CB1(-M1)	E2MP-CC1(-M1)	E2MP-CT1		
	Model		E2MP-S Series	E2MP-SB1(-M1)	E2MP-SC1(-M1)	E2MP-ST1		
	Output method			DC 3-wire PNP	DC 3-wire NPN	AC/DC 2-wire		
	Set distance			1 mm max.				
	Sensing object			E2MP-C Series: E2MP-CA E2MP-S Series: E2MP-SA				
	Power supply voltage			10 to 30 VDC (including ripple (p-p): 10%)		20 to 250 VAC (50/60 Hz), 10 to 300 VDC (including ripple (p-p): 10%)		
	Current consumption			15 mA max.		_		
	Leakage current			_		1.7mA max.		
	Control	Switc	hing capacity	Open-collector output 20	OmA max.	AC: 3 to 400 mA, DC: 3 to 300 mA		
	output Residual volta		lual voltage	2 V max. with a 2-m cable and up to a 200 mA load current		6 V max. (AC load current: 400 mA, DC load current: 300 mA, Cable length: 2 m)		
	Indicators			Operation indicator 1: Yellow Operation indicator 2: Red				
	Operation mode		de	NO (normally open) Refer to the timing charts with the I/O Circuit Diagrams for details.				
	Protection circuits			Load short-circuit protection, Power supply reverse polarity protection, Output reverse polarity protection				
	Ambient temperature		perature	Operating: -25 to 70°C (with no icing or condensation) Storage:-25 to 70°C (with no icing or condensation)				
	Ambient humidity			Operating: 35% to 95% (with no condensation) Storage: 35% to 95% (with no condensation)				
	Insulation resistance			50 MΩmin. (at 500 VDC) between current-carrying parts and case				
	Dielectric strength			500 VAC, 50/60 Hz for 1 min. between current-carrying parts and case 1,500 VAC, 50/60 Hz for 1 min. between current-carrying parts and case				
	Vibration resistance (destruction)		nce (destruction)	10 to 55 Hz, 1-mm double amplitude for 2 hours each in X, Y, and Z directions				
) '	Shock resistance (destruction)		e (destruction)	300 m/s ² 10 times each in X, Y, and Z directions				
	Degree of protection		otection	IEC 60529 IP67				
	Connection method		nethod	Not indicated in model number: Pre-wired Models (Standard cable length: 2 m) Model number with –M1: M12 Connector Models		Pre-wired Models (Standard cable length: 2 m)		
	Weight (packed state)		C Series	Pre-wired Models: Approx. 170 g Connector Models: Approx. 90 g		Models: Approx. 90 g		
		tate)	S Series	Pre-wired Models: Approx. 190 g Connector I		Models: Approx. 110 g		
	Materials			Case: PP, Display window: PA, Mounting screws and washers: Stainless steel, Cord: PVC (Pre-wired Models), Connectors: Brass nickel plated (Models with Connectors)				
	Accessories			Instruction Manual, screws (C Series: M15×12 two screws, S Series: M5×30 two screws ,M5×30 two screws, two washers)				

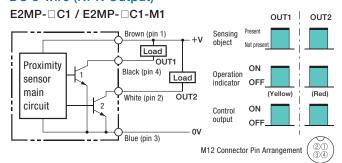
I/O Circuit Diagrams

DC 3-wire (PNP Output)



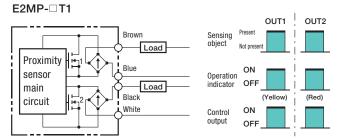
Applicable OMRON connector cable: X2SF Series

DC 3-wire (NPN Output)



Applicable OMRON connector cable: X2SF Series

AC/DC 2-wire



*The load can be connected to either the +V or 0V side.
There is also no reason to consider the polarity of the Valve Sensor.

Safety Precautions

MARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



Never use an AC power supply for a Valve Sensor specified for a DC power supply.0therwise, the Valve Sensor may rupture.

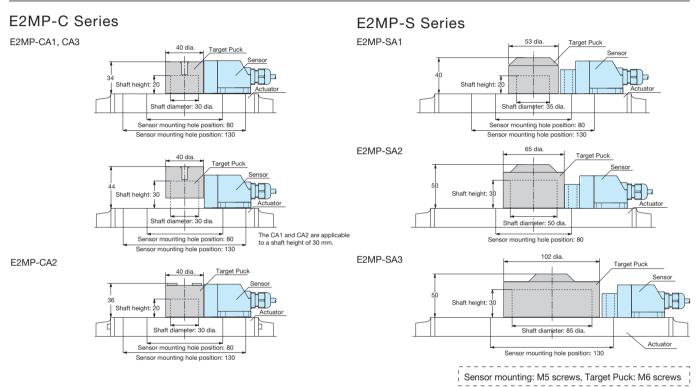


Target Puck

Model		Targe	t Puck for E2MP-C	Series	Target Puck for E2MP-S Series		
IVIOGEI		E2MP-CA1	E2MP-CA2	E2MP-CA3	E2MP-SA1	E2MP-SA2	E2MP-SA3
Specifica	tions	Fully open or fully closed (0°: closed, 90°: open)	Fully open or fully closed, converted to NC (0°: closed, 90°: open)	Fully closed or intermediate opening (0°: closed, 0° to 90°: open)	Fully open or fully closed (0°: closed, 90°: open)		
Applicable	Height	20 mm,30 mm 20 mm			20 mm	30 mm	30 mm
shaft size	Maximum diameter	30 mm			35 mm	50 mm	85 mm
Materials		Case: PP, Target: Stainless steel	Case: Aluminum	Case: PP, Target: Stainless steel	Case: PA, Target: Stainless steel		
Weight (pa	cked state)	Approx. 30 g	Approx. 65 g	Approx. 30 g	Approx. 45 g	Approx. 60 g	Approx. 100 g

Mounting Dimensions

(Unit:mm)



Ordering Information

Series	Output	Model			
361162	σαίραι	Pre-wired Models	Connector Models		
	DC 3-wire PNP	E2MP-CB1 2M	E2MP-CB1-M1		
E2MP-C Series	DC 3-wire NPN	E2MP-CC1 2M	E2MP-CC1-M1		
	AC/DC 2-wire	E2MP-CT1 2M	_		
	DC 3-wire PNP	E2MP-SB1 2M	E2MP-SB1-M1		
E2MP-S Series	DC 3-wire NPN	E2MP-SC1 2M	E2MP-SC1-M1		
	AC/DC 2-wire	E2MP-ST1 2M	_		

Series	Model
	E2MP-CA1
E2MP-C Series	E2MP-CA2
	E2MP-CA3
	E2MP-SA1
E2MP-S Series	E2MP-SA2
	E2MP-SA3

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