Proximity Sensor with All-stainless Housing



Highly Durable Proximity Sensor for Tough Environments

- · Completely stainless-steel housing
- · Aluminum chip immunity
- Embedding installation to metal (steel) fittings

Be sure to read Safety Precautions on

and require separate protection.

- · Chemical resistance certified by Ecolab Europe
- Lineup includes pre-wire models and DC 3-wire NPN output models with fluororesin coating.

Note: Models with a fluororesin coating also use vinyl chloride for the cable material



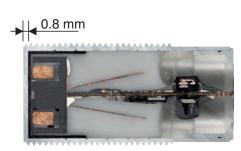
For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Features

page 9.

One-piece completely stainless-steel housing with a face thickness of 0.8 mm

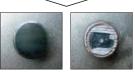
The face thickness is approximately 4 times that of previous models (E2ES) to enable sensing in even more severe conditions than ever.



Brush Test



After 3 Minutes



E2FM

E2EQ (Spatter-resistant)



Continuous Impact Test





The E2ES with a The E2FM was top wall thicknes of 0.2 mm was penetrated after

after 250,000 impacts (depth: 10.000 impacts. 0.26 mm)

More than 20 times the durability of the E2ES!

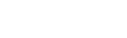
not penetra

Chemical and Detergent Proof

The one-piece completely stainlesssteel housing of the sensing section withstands the following chemicals better.

- Sodium chloride
- Gasoline
- Dilute sodium hydroxide
- Dilute hydrochloric acid
- Mineral oil
- Barium hydroxide Any many others

Note: Cannot be used for explosion-proof applications.

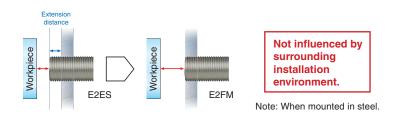


Built-in Chip Immunity

Chip immunity performance has been provided to greatly reduce false signals caused by spatter accumulation and other causes, almost eliminating the needs for cleaning, e.g., with metal brushes.



Flush Mounting





Main Performance Comparison to Previous OMRON Products

Face thickness		ss Sensing distance			Response frequency			
	E2FM	E2ES		E2FM	E2ES		E2FM	E2ES
M8	0.4 mm		M8	1.5 mm		M8	200 Hz	
M12	0.8 mm		M12	2.0 mm		M12	100 Hz	
M18	0.8 mm	0.2 mm	M18	5.0 mm	4.0 mm	M18	100 Hz	12 Hz
M30	0.8 mm	0.2 mm	M30	10.0 mm	8.0 mm	M30	50 Hz	8 Hz

Ambient operating temperature

E2FM	E2ES
–25 to 70°C	0 to 50°C

The chemical resistance has been certified by Ecolab Europe



Ordering Information

Sensors [Refer to Dimensions on page 10.]

DC 2-Wire, Pre-wired Models Size Sensing distance Model Output Operation mode M8 1.5 mm E2FM-X1R5D1 2M Shielded M12 2 mm E2FM-X2D1 2M * DC 2-Wire NO (polarity) E2FM-X5D1 2M M18 5 mm E2FM-X10D1 2M * M30 10 mm

Note: Models with NC operation are also available. Ask your OMRON representative for details. * Fluororesin-coated models are also available. The model numbers are E2FM-QX□D1. The cable material, however, is vinyl chloride and requires separate protection.

DC 2-wire Pre-wired Smartclick Connector Models (M12)

Size		Sensing distance		Output	Operation mode	Model
	M8	1.5 mm		Polarity Pin allocations: 1-4		E2FM-X1R5D1-M1TGJ 0.3M
	M12	0 mm		Polarity Pin allocations: 1-4		E2FM-X2D1-M1TGJ 0.3M
Shielded M12	IVITZ	2 mm		No polarity Pin allocations: 3-4		E2FM-X2D1-M1TGJ-T 0.3M
	M18			Polarity Pin allocations: 1-4	NO	E2FM-X5D1-M1TGJ 0.3M
	IVITO	M18 5 mm		No polarity Pin allocations: 3-4		E2FM-X5D1-M1TGJ-T 0.3M
	M30 10 mm			Polarity Pin allocations: 1-4		E2FM-X10D1-M1TGJ 0.3M
	10100	10 mm	1	No polarity Pin allocations: 3-4		E2FM-X10D1-M1TGJ-T 0.3M

DC 3-Wire, Pre-wired Models

Size		Sensing distance	Model			
5120		Sensing distance	Output configuration: NPN NO	Output configuration: PNP NO		
Shielded	M8	1.5 mm	E2FM-X1R5C1 2M	E2FM-X1R5B1 2M		
	M12	2 mm	E2FM-X2C1 2M	E2FM-X2B1 2M		
	M18	5 mm	E2FM-X5C1 2M	E2FM-X5B1 2M		
17774	M30	10 mm	E2FM-X10C1 2M	E2FM-X10B1 2M		

Note: Models with NC operation are also available. Ask your OMRON representative for details.

DC 3-Wire, M12 Connector Models

Size		Sensing distance	Model			
5126	Size Sensing		Output configuration: NPN NO	Output configuration: PNP NO		
Shielded	M8	1 .5 mm	E2FM-X1R5C1-M1	E2FM-X1R5B1-M1 *		
	M12	2 mm	E2FM-X2C1-M1	E2FM-X2B1-M1 *		
	M18	5 mm	E2FM-X5C1-M1	E2FM-X5B1-M1 *		
	M30	10 mm	E2FM-X10C1-M1	E2FM-X10B1-M1 *		

* Fluororesin-coated models are also available. The model numbers are E2FM-QX B1-M1. The cable material, however, is vinyl chloride and requires separate protection.

Accessories (Order Separately) Sensor I/O Connectors (M12, Sockets on One Cable End) (Models for Connectors and with Pre-wired Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.) [Refer to XS2, XS5.]

Appearance	Cable length	Sensor I/O Connector model number	Applicable Proximity Sensor model number
Straight	2m	XS2F-D421-DC0-F	
	5m	XS2F-D421-GC0-F	E2FM-X□C1-M1
L-shape	2m	XS2F-D422-DC0-F	E2FM-X□B1-M1
	5m	XS2F-D422-GC0-F	
Smartclick Connector Relay Models (M12)	2m	XS5F-D421-D80-F	E2FM-X□D1-M1TGJ
	5m	XS5F-D421-G80-F	E2FM-X□D1-M1TGJ-T

Note: Refer to Introduction to Sensor I/O Connectors for details.

Ratings and Specifications

DC 2-Wire (E2FM-XDD)

	Size	M8	M12	M18	M30	M12	M18	M30		
	Shielded	Shielded								
Item	Model	E2FM-X1R5D1-	E2FM-X2D1-	E2FM-X5D1-	E2FM-X10D1-	E2FM-X2D1- M1T1GJ-T	E2FM-X5D1- M1T1GJ-T	E2FM-X10D1- M1T1GJ-T		
Sensing o	distance	1.5 mm±10%	2 mm±10%	5 mm±10%	10 mm±10%	2 mm±10%	5 mm±10%	10 mm±10%		
Set distar	nce	0 to 1.05 mm	0 to 1.4 mm	0 to 3.5 mm	0 to 7 mm	0 to 1.4 mm	0 to 3.5 mm	0 to 7 mm		
Differentia	al travel	15% max. of se	nsing distance							
Sensing o	object	Ferrous metal (The sensing dista	ance decreases w	rith non-ferrous m	netal. Refer to Er	<i>igineering Data</i> o	n page 7.)		
Standard	sensing object	Iron, $8 \times 8 \times 1 \text{ mm}$	$\begin{array}{c} \text{Iron,} \\ 12 \times 12 \times 1 \text{ mm} \end{array}$	Iron, $30 \times 30 \times 1 \text{ mm}$	Iron, $54 \times 54 \times 1 \text{ mm}$	Iron, $12 \times 12 \times 1 \text{ mm}$	Iron, $30 \times 30 \times 1 \text{ mm}$	Iron, $54 \times 54 \times 1 \text{ mm}$		
Response	e frequency *1	200 Hz	100 Hz	100 Hz	50 Hz	100 Hz	100 Hz	50 Hz		
Power supp (operating	ply voltage voltage range)	12 to 24 VDC (1	0 to 30 VDC), rip	ople (p-p): 10% m	ax.					
Leakage of	current	0.8 mA max.								
Output co	onfiguration	With polarity				No polarity				
Control	Switching capacity	3 to 100 mA								
output	Residual voltage	3 V max. (Load current: 1	00 mA max., Cal	ole length: 2 m)		5 V max. (Load current: 1	00 mA max., Cal	ole length: 2 m)		
Indicators	5	Operation indicator (red LED), Setting/Operation indicator (green LED)								
Operation (with sense approach	sing object	NO *2								
Protection	n circuits	Surge suppressor, Load short-circuit protection								
Ambient ten	nperature range	Operating/Storage: -25 to 70°C (with no icing or condensation)								
Ambient h	umidity range	Operating/Storage: 35% to 95% (with no condensation)								
Temperat	ure influence	\pm 20% max. of sensing distance at 23°C in the temperature range of –25 to 70°C.								
Voltage in	nfluence	±1% max. of sensing distance at rated voltage in the rated voltage ±15% range								
Insulation	n resistance	50 M Ω min. (at	500 VDC) betwee	en current-carryin	g parts and case	•				
Dielectric strength 1,000 VAC, 50/60 Hz for 1 mi				e between currer	it-carrying parts a	and case				
Vibration	resistance	Destruction: 10	to 55 Hz, 1.5-mm	n double amplitud	e for 2 hours eac	ch in X, Y, and Z	directions			
Shock res	sistance	Destruction: 500 m/s ² 10 times each in X, Y, and Z directions Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions								
Degree of	fprotection	IEC 60529 IP67								
Connection method Unmarked: Pre-wired Models (Standard cable length: 2 m) Models ending with -M1GJ-[]: Pre-wired Connector Models (Standard cable length: 300 mm)						ard cable length:	300 mm)			

	Size	M8	M12	M18	M30	M12	M18	M30		
	Shielded			1	Shielded	1	1	1		
Item	Model	E2FM-X1R5D1-	E2FM-X2D1-	E2FM-X5D1-	E2FM-X10D1-	E2FM-X2D1- M1T1GJ-T	E2FM-X5D1- M1T1GJ-T	E2FM-X10D1- M1T1GJ-T		
Weight (packed state)	Pre-wired Models (2 m)	Approx. 105 g	Approx. 190 g	Approx. 215 g	Approx. 295 g					
	Pre-wired Connector Models	Approx. 65 g	Approx. 85 g	Approx. 110 g	Approx. 190 g	Approx. 85 g	Approx. 110 g	Approx. 190 g		
	Case	Stainless steel (SUS303)								
	Sensing surface	Stainless steel (SUS303)								
Materi-	(thickness)	(0.4 mm)	(0.8 mm)			(0.8 mm)				
als	Clamping nuts	Stainless steel (SUS303)								
	Cable	PVC (flame reta	rdant)							
	Toothed washer	Zinc-plated iron								
Accessories Instruction manual										

*1. The response frequency of the DC switching section is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.
*2. NC (normally closed) models are also available. Contact your OMRON representative.

DC 3-Wire (E2FM-X C , E2FM-X B)

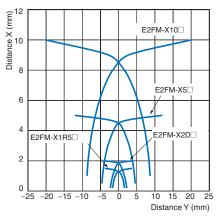
	Size	M8	M12	M18	M30			
	Shielded		Shie	elded				
tem	Model	E2FM-X1R5	E2FM-X2	E2FM-X5	E2FM-X10			
Sensing o	distance	1.5 mm±10%	2 mm±10%	5 mm±10%	10 mm±10%			
et distar	nce	0 to 1.05 mm	0 to 1.4 mm	0 to 3.5 mm	0 to 7 mm			
oifferenti	al travel	15% max. of sensing distant	ce	1				
ensing o	object	Ferrous metal (The sensing	distance decreases with non	-ferrous metal. Refer to Engl	ineering Data on page 7.)			
standard	sensing object	Iron, $8 \times 8 \times 1$ mm	Iron, $12 \times 12 \times 1$ mm	Iron, $30 \times 30 \times 1 \text{ mm}$	Iron, $54 \times 54 \times 1$ mm			
Response	e frequency *1	200 Hz	100 Hz	100 Hz	50 Hz			
	pply voltage g voltage	12 to 24 VDC (10 to 30 VDC	c), ripple (p-p): 10% max.					
Current c	onsumption	10 mA max.						
Output co	onfiguration	PNP open collector output						
Control	Switching ca- pacity	200 mA max.						
output	Residual voltage	2 V max. (Load current: 200	, , , , , , , , , , , , , , , , , , ,					
ndicators		Operation indicator (yellow L	_ED)					
Operation with sen approach	sing object	C1 Models: NPN open colled B1 Models: PNP open colled						
Protection	n circuits	Reversed power supply polarity protection, Surge suppressor, Load short-circuit protection, and Reversed output polarity protection (except the E2FM-X1R5B1-M1)						
Ambient f ange	temperature	Operating/Storage: -25 to 7	0°C (with no icing or condens	sation)				
Ambient humidity range Operating/Storage: 35% to 95% (with no condensation)								
Temperat nfluence		\pm 20% max. of sensing distance at 23°C in the temperature range of –25 to 70°C.						
/oltage in		\pm 1% max. of sensing distance in the rated voltage \pm 15% range (using the sensing distance at the rated voltage as standard)						
nsulatior	n resistance	50 M Ω min. (at 500 VDC) between current-carrying parts and case						
	strength	1,000 VAC, 50/60 Hz for 1 minute between current-carrying parts and case						
/ibration	resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions						
Shock res	sistance	Destruction: 500 m/s ² 10 times each in X, Y, and Z directions Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions						
Degree of	f protection	IEC 60529 IP67						
Connectio	on method	Unmarked: Pre-wired Model Models ending with -M1: Co	s (Standard cable length: 2 n nnector Models	ן)				
Neight	Pre-wired Models (2 m)		Approx. 170 g	Approx. 190 g	Approx. 275 g			
packed state)	Pre-wired Connector Models	Approx. 45 g	Approx. 55 g	Approx. 75 g	Approx. 160 g			
	Case	tainless steel (SUS303)						
	Sensing sur- face	Stainless steel (SUS303)						
lateri-	(thickness)	(0.4 mm)	(0.8 mm)					
lls	Clamping nuts	Stainless steel (SUS303)	·					
	Toothed washer	Zinc-plated iron						
Accessor	ies	Instruction manual						

*1. The response frequency of the DC switching section is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.
*2. NC (normally closed) models are also available. Contact your OMRON representative.

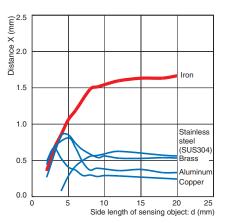
Engineering Data (Reference Value)

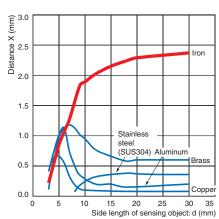
Sensing Area



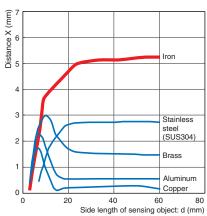


Influence of Sensing Object Size and Material



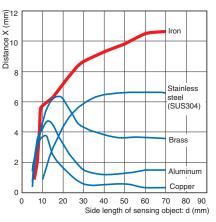


E2FM-X5





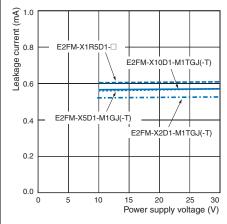
E2FM-X1R5





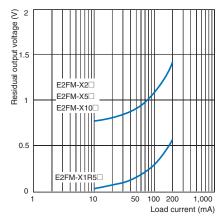
E2FM-X2



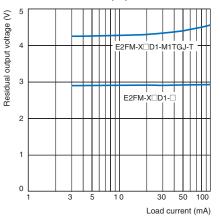


Residual Output Voltage

E2FM-XC/B

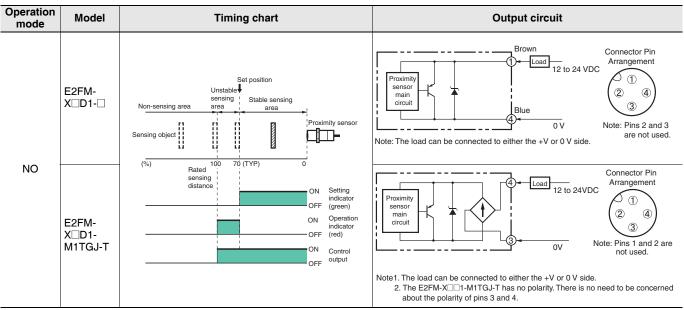


E2FM-XD1-M1TGJ (-T)



I/O Circuit Diagrams

DC 2-Wire Models



DC 3-Wire Models

Opera- tion mode	Output config- uration	Model	Timing chart	Output circuit
NO	NPN open- collector model	E2FM- X1R5C E2FM- X2C E2FM- X5C E2FM- X10C	Non-sensing area Sensing object	There is no reversed output polarity protection dives. * There is no reversed output polarity protection dives. Connector Pin Arrangement 0 V 0 V
	PNP open- collector model	E2FM- X1R5B E2FM- X2B E2FM- X5B E2FM- X10B	Rated sensing distance ON Operation indicator OFF (yellow) ON Control OFF OFF output	* There is no reversed output polarity protection diode.

Safety Precautions

<u> WARNING</u>

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



Never use this product with an AC power supply. Otherwise, explosion may result.



Precautions for Safe Use

The following precautions must be observed to ensure safe operation.

- 1. Do not use the Sensor in an environment where inflammable or explosive gas is present.
- 2. Do not attempt to disassemble, repair, or modify any Sensors.
- 3. Power Supply Voltage
- Do not use a voltage that exceeds the rated operating voltage range. Applying a voltage that is higher than the operating voltage range may result in explosion or fire.
- 4. Incorrect Wiring

Be sure that the power supply polarity and other wiring is correct. Incorrect wiring may cause explosion or fire.

5. Connection without a Load

If the power supply is connected directly without a load, the internal elements may explode or burn. Be sure to insert a load when connecting the power supply.

Precautions for Correct Use

Do not use the Sensor under ambient conditions that exceed the ratings.

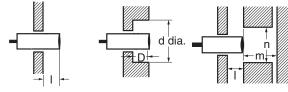
- 1. Do not use the Sensor in the following locations.
 - Outdoor locations directly subject to sunlight, rain, snow, or water droplets
 - (2) Locations subject to atmospheres with chemical vapors, in particular solvents and acids
 - (3) Locations subject to corrosive gas
- 2. The Sensor may malfunction if used near ultrasonic cleaning equipment, high-frequency equipment, transceivers, cellular phones, inverters, or other devices that generate a high-frequency electric field. Refer to the *Technical Guide Photoelectric Sensors* for typical measures.
- Laying the Sensor wiring in the same conduit or duct as highvoltage wires or power lines may result in incorrect operation and damage due to induction. Wire the Sensor using a separate conduit or independent conduit.
- 4. Cleaning

Never use thinner or other solvents. Otherwise, the Sensor surface may be dissolved.

• Design

Influence of Surrounding Metal

When the Proximity Sensor is embedded in metal, make sure that the clearances given in the following table are maintained. The values depend on the type of nuts used for mounting. Be sure to use the supplied nuts (SUS303).



					(Uni	it: mm)
Model	Item Embedding material	I	d	D	m	n
	Iron	0	8	0	4.5	30
E2FM-X1R5	Aluminum	10	50	10	4.5	50
E2FM-X2	Iron	0	12	0	8	40
	Aluminum	16	70	16	8	70
E2FM-X5	Iron	0	18	0	20	60
	Aluminum	16	80	16	20	80
E2FM-X10	Iron	0	30	0	40	100
	Aluminum	24	120	24	40	120

Note: The influence from other non-magnetic surrounding metals is nearly the same as that from aluminum.

Mutual Interference

When installing two or more Sensors face-to-face or side-by-side, ensure that the minimum distances given in the following table are maintained.

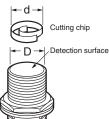
	(Uni	t: mm)	
Model Item	Α	В	└─ ━ {·─┼╫┅──┈┟╢─┼╼
E2FM-X1R5	35	30	└──────────────────────────────────────
E2FM-X2	40	35	
E2FM-X5	65	60	₽_₽_₽
E2FM-X10	110	100	₽

Chips from Cutting Aluminum

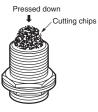
Normally, chips from cutting aluminum or cast iron will not cause a detection signal to be output even if it adheres to or accumulates on the detection surface. In the following cases, however, a detection signal may be output. Remove the cutting chips in these cases.

1. If $d \ge \frac{2}{3}$ D at the center of the detection surface where d is the cutting chip size and D is the detection surface size

Model	Dimension (mm)	D
E2FM-X1R5		6
E2FM-X2		10
E2FM-X5		16
E2FM-X10		28



2. If the cutting chips are pressed down



Mounting

Do not tighten the nut with excessive force. A washer must be used with the nut. Do not use tightening force that exceeds the values in the following table.

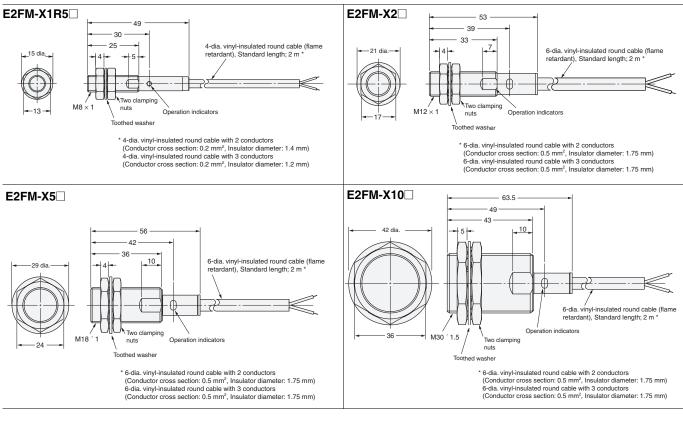
Model	Torque	~
E2FM-X1R5	9 N·m	
E2FM-X2	30 N·m	Ya
E2FM-X5	70 N·m	
E2FM-X10	180 N·m	J.



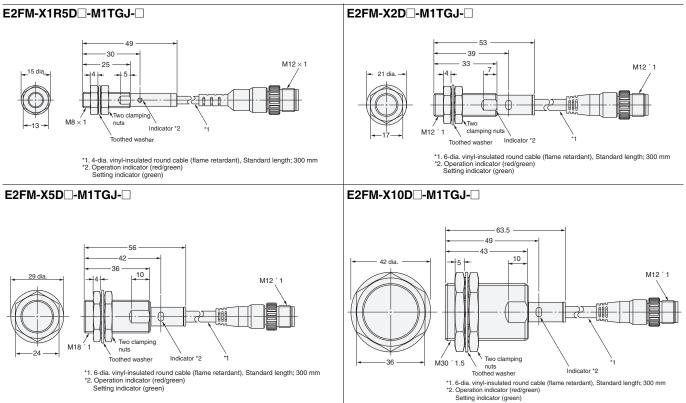
Dimensions

Sensors

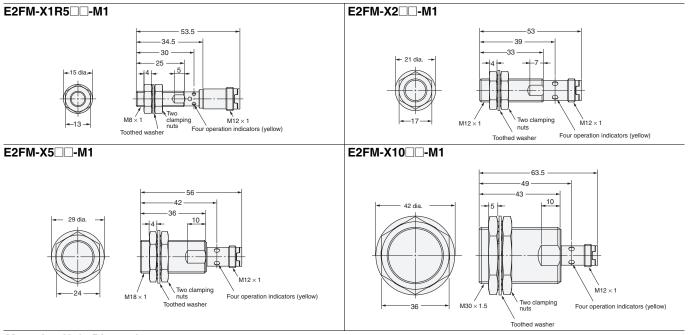
Pre-wired Models



Pre-wired Connector Models



M12 Connector Models



Mounting Hole Dimensions



Dimension	M8	M12	M18	M30
F (mm)	$8.5^{+0.5}_{0}$ dia.	12.5 ^{+0.5} dia.	18.5 ^{+0.5} dia.	30.5 ^{+0.5} dia.

Read and understand this catalog.

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