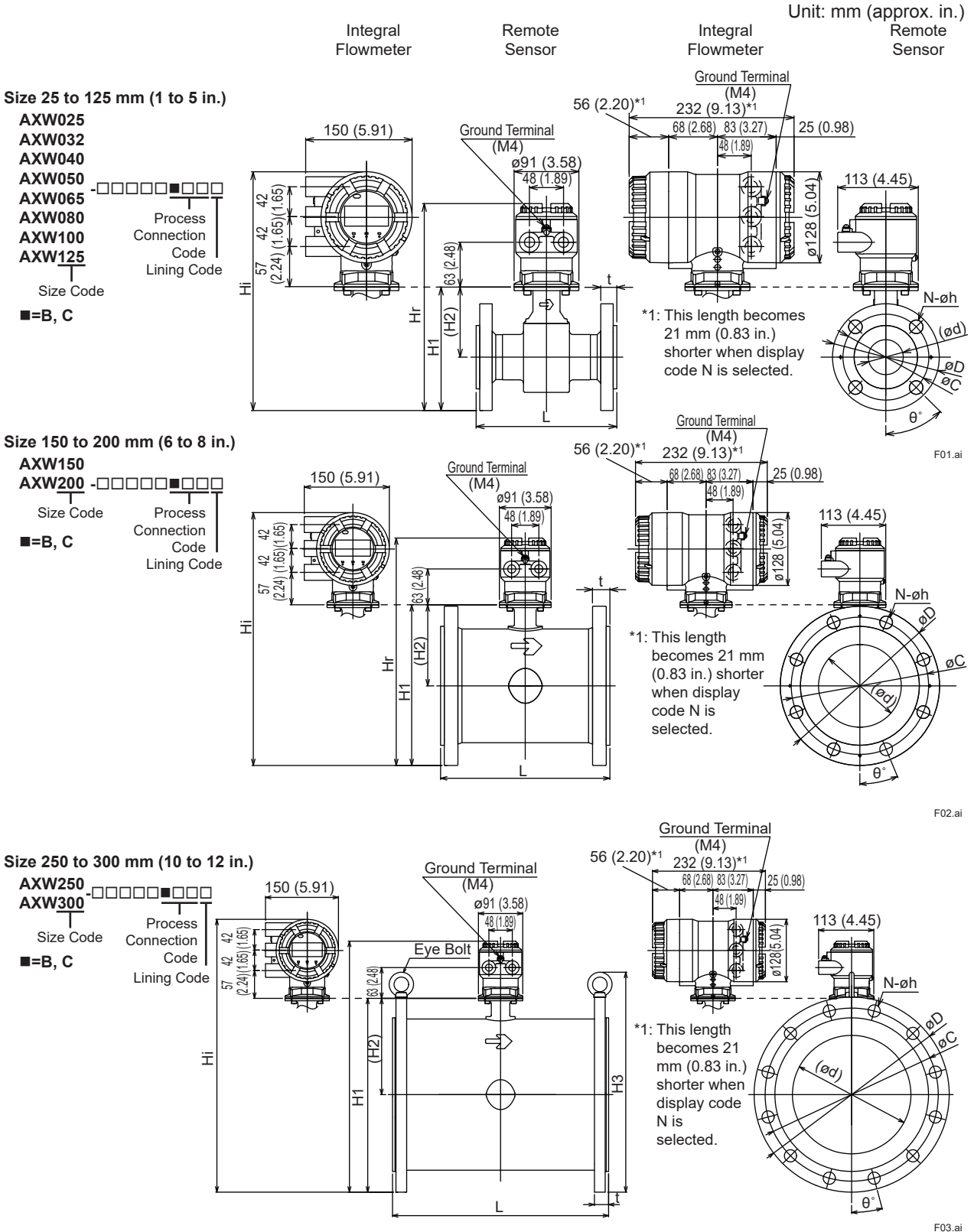


Drawings

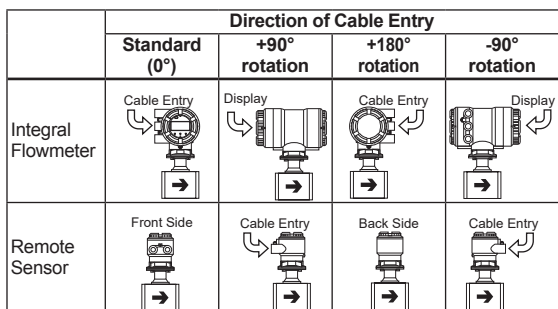
ADMAG TI Series
 AXW Magnetic Flowmeter
 [Size: 25 to 400 mm (1 to 16 in.)]
 Flange JIS 20K



SD 01E24D02-07EN



Unless otherwise specified, difference in the dimensions are specified as : General tolerance = ± (Criteria of tolerance class IT18 in JIS B0401-1) / 2



* The direction of cable entry changes as shown left depending on the designation of the optional code RH with its rotational specification.

Unit: mm (approx. in.)

Model	Process Connection Code	BJ2																CJ2							
		025		032		040		050		065		080		100		125		125		125		125			
		(1)	(1)	(1.25)	(1.25)	(1.5)	(1.5)	(2)	(2)	(2)	(2.5)	(2.5)	(3)	(3)	(4)	(4)	(4)	(4)	(5)	(5)	(5)	(5)			
Remote Sensor	Lining Code	F	U	F	U	F	U	F	U	H,D	F	U,H,D	F	U,H,D	F	U	H	D	F	U	H	D			
	Lay Length (*1) (*5)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	198 (7.78)	248 (9.74)	248 (9.74)	248 (9.74)	248 (9.74)	248 (9.74)	248 (9.74)	248 (9.74)	248 (9.74)	248 (9.74)		
	Flange Outer Diameter	øD	125 (4.92)	125 (4.92)	135 (5.31)	135 (5.31)	140 (5.51)	140 (5.51)	155 (6.10)	155 (6.10)	155 (6.10)	175 (6.89)	175 (6.89)	200 (7.87)	200 (7.87)	225 (8.86)	225 (8.86)	225 (8.86)	225 (8.86)	270 (10.63)	270 (10.63)	270 (10.63)	270 (10.63)		
	Flange Thickness (incl. lining flare)	t	23.5 (0.93)	22.0 (0.87)	24.5 (0.96)	23.0 (0.91)	24.5 (0.96)	23.0 (0.91)	24.5 (0.96)	23.0 (0.91)	26.5 (1.04)	25.0 (0.98)	28.5 (1.12)	27.0 (1.06)	30.5 (1.20)	29.0 (1.14)	29.0 (1.14)	29.0 (1.14)	29.0 (1.14)	32.5 (1.28)	31.0 (1.22)	31.0 (1.22)	31.0 (1.22)		
	Lining Inner Diameter	ød	26 (1.02)	24 (0.93)	31 (1.22)	29 (1.13)	39 (1.53)	37 (1.44)	52 (2.03)	49 (1.94)	50 (1.95)	63 (2.49)	61 (2.40)	75 (2.96)	73 (2.87)	100 (3.95)	97 (3.82)	98 (3.87)	96 (3.79)	125 (4.91)	121 (4.76)	123 (4.83)	121 (4.75)		
	Bolt	øC	90	90	100	100	105	105	120	120	120	140	140	160	160	185	185	185	185	225	225	225	225		
	Circle Diameter		3.54 (3.54)	3.54 (3.54)	3.94 (3.94)	3.94 (3.94)	4.13 (4.13)	4.13 (4.13)	4.72 (4.72)	4.72 (4.72)	4.72 (4.72)	5.51 (5.51)	5.51 (5.51)	6.30 (6.30)	6.30 (6.30)	7.28 (7.28)	7.28 (7.28)	7.28 (7.28)	7.28 (7.28)	8.86 (8.86)	8.86 (8.86)	8.86 (8.86)	8.86 (8.86)		
	Bolt Hole Interval	θ°	45	45	45	45	45	45	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5		
	Bolt Hole Diameter	øh	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	19 (0.75)	23 (0.91)	23 (0.91)	23 (0.91)	23 (0.91)	23 (0.91)	23 (0.91)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)		
	Number of Bolt Holes	N	4	4	4	4	4	4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
Integral Flowmeter	Height	H1	143 (5.63)	143 (5.63)	154 (6.06)	154 (6.06)	156 (6.14)	156 (6.14)	177 (6.97)	177 (6.97)	177 (6.97)	196 (7.72)	196 (7.72)	214 (8.43)	214 (8.43)	237 (9.33)	237 (9.33)	237 (9.33)	237 (9.33)	273 (10.75)	273 (10.75)	273 (10.75)	273 (10.75)		
	Height	H2	80 (3.15)	80 (3.15)	86 (3.39)	86 (3.39)	86 (3.39)	86 (3.39)	99 (3.90)	99 (3.90)	99 (3.90)	108 (4.25)	108 (4.25)	114 (4.49)	114 (4.49)	124 (4.88)	124 (4.88)	124 (4.88)	124 (4.88)	138 (5.43)	138 (5.43)	138 (5.43)	138 (5.43)		
Remote Sensor	Maximum Height	Hr	260 (10.24)	260 (10.24)	271 (10.67)	271 (10.67)	273 (10.75)	273 (10.75)	294 (11.57)	294 (11.57)	294 (11.57)	313 (12.32)	313 (12.32)	331 (13.03)	331 (13.03)	354 (13.94)	354 (13.94)	354 (13.94)	354 (13.94)	390 (15.35)	390 (15.35)	390 (15.35)	390 (15.35)		
	Approx. Weight, Unit: kg (lb) (*2)		5.2 (11.5)	5.2 (11.5)	6.3 (13.9)	6.3 (13.9)	6.6 (14.6)	6.6 (14.6)	7.5 (16.5)	7.5 (16.5)	7.5 (16.5)	9.9 (21.8)	9.9 (21.8)	13.1 (28.9)	13.1 (28.9)	17.7 (39.0)	17.7 (39.0)	17.7 (39.0)	17.7 (39.0)	26.5 (58.4)	26.5 (58.4)	26.5 (58.4)	26.5 (58.4)		
Integral Flowmeter	Maximum Height	Hi	305 (12.01)	305 (12.01)	316 (12.44)	316 (12.44)	318 (12.52)	318 (12.52)	339 (13.35)	339 (13.35)	339 (13.35)	358 (14.09)	358 (14.09)	376 (14.80)	376 (14.80)	399 (15.71)	399 (15.71)	399 (15.71)	399 (15.71)	435 (17.13)	435 (17.13)	435 (17.13)	435 (17.13)		
	Approx. Weight, Unit: kg (lb)		7.7 (17.0)	7.7 (17.0)	8.8 (19.4)	8.8 (19.4)	9.2 (20.3)	9.2 (20.3)	10.0 (22.1)	10.0 (22.1)	10.0 (22.1)	12.5 (27.6)	12.5 (27.6)	15.6 (34.4)	15.6 (34.4)	20.2 (44.5)	20.2 (44.5)	20.2 (44.5)	20.2 (44.5)	29.1 (64.2)	29.1 (64.2)	29.1 (64.2)	29.1 (64.2)		
Grounding rings thin type (GRL, GRH) (*1) (*3)			+2 (+0.08)		+2 (+0.08)		+2 (+0.08)		+2 (+0.08)	+2 (+0.08)		+2 (+0.08)		+2 (+0.08)		+2 (+0.08)		+2 (+0.08)		+2 (+0.08)		+2 (+0.08)			
Grounding rings thick type (GRN, GRJ) (*1) (*4)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)			
Grounding rings thick type (GRN, GRJ) with gaskets (GA, GC, GD) (*1)			+10 (+0.39)		+10 (+0.39)		+10 (+0.39)		+10 (+0.39)		+10 (+0.39)		+10 (+0.39)		+10 (+0.39)		+10 (+0.39)		+10 (+0.39)		+10 (+0.39)				

- *1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets. Also, the thickness of customer supplied gaskets should be added for getting the total lay length.
- *2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- *3: These grounding rings (GRL, GRH) are not applied to lining code F nor H but for U and D.
- *4: When applying these grounding rings (GRN, GRJ) to lining code H, gaskets supplied by customer are necessary. For the sizes in this table, recommended thickness of the gasket is 2 mm (0.08 in.) per one, bringing 4 mm (0.16 in.) per two to be additionally added for getting the total lay length.
- *5: The tolerance of the lay length "L" is as follows.
 - Size 25 to 200 mm (1 to 8 in.): 0/-3 mm

Unit: mm (approx. in.)

Model	Process Connection Code		BJ2 CJ2											
			150			200			250			300		
	Size Code	150	150	150	200	200	200	250	250	250	300	300	300	
Size	(6)	(6)	(6)	(8)	(8)	(8)	(10)	(10)	(10)	(12)	(12)	(12)		
Lining Code	F	U	H, D	F	U	H, D	F	U	H, D	F	U	H, D		
Remote Sensor	Lay Length (*1) (*5)	L	299 (11.75)	299 (11.75)	299 (11.75)	349 (13.72)	349 (13.72)	349 (13.72)	448 (17.62)	448 (17.62)	448 (17.62)	498 (19.59)	498 (19.59)	498 (19.59)
	Flange Outer Diameter	øD	305 (12.01)	305 (12.01)	305 (12.01)	350 (13.78)	350 (13.78)	350 (13.78)	430 (16.93)	430 (16.93)	430 (16.93)	480 (18.90)	480 (18.90)	480 (18.90)
	Flange Thickness (incl. lining flare)	t	33.0 (1.30)	33.0 (1.30)	33.0 (1.30)	35.0 (1.38)	35.0 (1.38)	35.0 (1.38)	40.0 (1.57)	40.0 (1.57)	40.0 (1.57)	41.0 (1.61)	41.0 (1.61)	41.0 (1.61)
	Lining Inner Diameter	ød	149 (5.87)	145 (5.71)	147 (5.80)	200 (7.89)	194 (7.63)	198 (7.81)	248 (9.78)	242 (9.53)	247 (9.74)	300 (11.79)	292 (11.48)	299 (11.75)
	Bolt Circle Diameter	øC	260 (10.24)	260 (10.24)	260 (10.24)	305 (12.01)	305 (12.01)	305 (12.01)	380 (14.96)	380 (14.96)	380 (14.96)	430 (16.93)	430 (16.93)	430 (16.93)
	Bolt Hole Interval	θ°	15	15	15	15	15	15	15	15	15	11.25	11.25	11.25
	Bolt Hole Diameter	øh	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	27 (1.06)	27 (1.06)	27 (1.06)	27 (1.06)	27 (1.06)	27 (1.06)
	Number of Bolt Holes	N	12	12	12	12	12	12	12	12	12	16	16	16
	Height	H1	295 (11.61)	295 (11.61)	295 (11.61)	343 (13.49)	343 (13.49)	343 (13.49)	413 (16.27)	413 (16.27)	413 (16.27)	463 (18.22)	463 (18.22)	463 (18.22)
	Height	H2	143 (5.61)	143 (5.61)	143 (5.61)	168 (6.60)	168 (6.60)	168 (6.60)	198 (7.81)	198 (7.81)	198 (7.81)	223 (8.77)	223 (8.77)	223 (8.77)
Height	H3	-	-	-	-	-	-	481 (18.94)	481 (18.94)	481 (18.94)	531 (20.91)	531 (20.91)	531 (20.91)	
Remote Sensor	Maximum Height	Hr	412 (16.23)	412 (16.23)	412 (16.23)	460 (18.11)	460 (18.11)	460 (18.11)	531 (20.89)	531 (20.89)	531 (20.89)	580 (22.84)	580 (22.84)	580 (22.84)
	Approx. Weight, Unit: kg (lb) (*2)		35 (77.3)	35 (77.3)	35 (77.3)	48 (106.0)	47 (103.8)	47 (103.8)	85 (187.6)	84 (185.4)	83 (183.2)	101 (223.0)	100 (220.8)	100 (220.8)
Integral Flowmeter	Maximum Height	Hi	457 (17.99)	457 (17.99)	457 (17.99)	505 (19.87)	505 (19.87)	505 (19.87)	575 (22.65)	575 (22.65)	575 (22.65)	625 (24.60)	625 (24.60)	625 (24.60)
	Approx. Weight, Unit: kg (lb)		37 (81.7)	37 (81.7)	37 (81.7)	50 (110.4)	50 (110.4)	50 (110.4)	87 (192.1)	86 (189.9)	86 (189.9)	104 (229.6)	102 (225.2)	102 (225.2)
Grounding rings thin type (GRL, GRH) (*1) (*3)			-	+2 (+0.08)	+2 (+0.08)	-	+2 (+0.08)	+2 (+0.08)	-	+4 (+0.16)	+4 (+0.16)	-	+4 (+0.16)	+4 (+0.16)
Grounding rings thick type (GRN, GRJ) (*1) (*4)			+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)	+6 (+0.24)

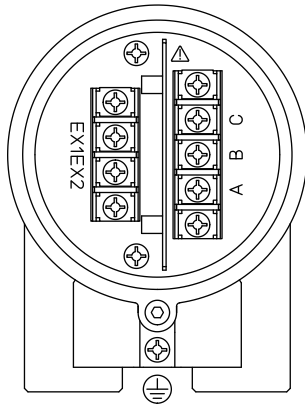
- *1: Add the value above (which is the total of both ends) to the lay length "L" when selecting optional grounding rings with/without gaskets. Also, the thickness of customer supplied gaskets should be added for getting the total lay length.
- *2: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached. When the cable length is 30-meters, add 9.5 kg (20.9 lb) to the weight in the table.
- *3: These grounding rings (GRL, GRH) are not applied to lining code F nor H but for U and D.
- *4: When applying these grounding rings (GRN, GRJ) to lining code F or H, gaskets supplied by customer are necessary. For the sizes in this table, recommended thickness of the gasket is 3 to 5 mm (0.12 to 0.20 in.) per one, bringing 6 to 10 mm (0.24 to 0.39 in.) per two to be additionally added for getting the total lay length.
- *5: The tolerance of the lay length "L" is as follows.
- Size 25 to 200 mm (1 to 8 in.): 0/-3 mm
 - Size 250 to 400 mm (10 to 16 in.): 0/-5 mm

Terminal Configuration and Wiring

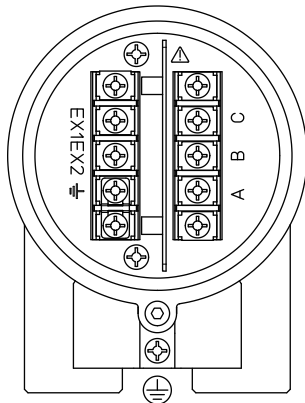
Remote Sensor:

<To be wired to Remote Transmitter>

Non Explosion Protection Use



Explosion Protection Use



Terminal Symbol	Description
A B C	Flow Signal Output
EX1 EX2	Excitation Current Input
⊕	Protective Grounding (Outside of the terminal box)
⊖	Functional Grounding

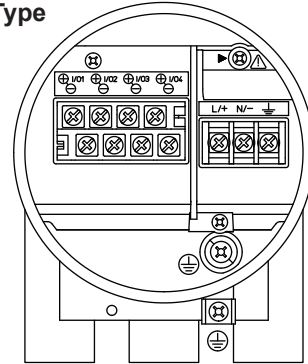
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Note: When submersible use or optional code DHC is selected, waterproof glands with union joints and cables are attached.

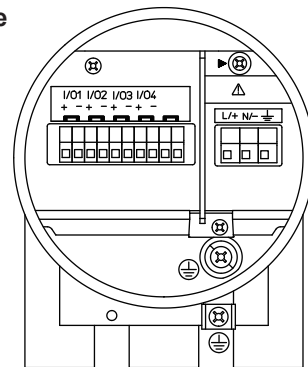
Integral Flowmeter:

<To be wired to Power Supply and I/Os>

M4 Screw Type



Clamp Type



Terminal Symbol	Description
▶	Shorting Screw (Need to be fixed for normal operation)
⊖	Functional Grounding
N/- L/+	Power Supply
I/O4 - I/O4 + I/O3 - I/O3 + I/O2 - I/O2 + I/O1 - I/O1 +	Selected Input/Output
⊕	Protective Grounding (Inside and outside of the terminal box)

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