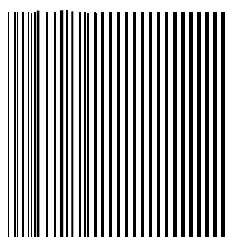




IR-CA

「2 . .가 」

IR-CAQ



INSTRUCTIONS



CHINO



/

Ver.1.1

IR-CA 「2 . . 가 」
 IR-CAQ . . .



가

- 1.
- 2.
- 3.

3

1 . . 가

가 . .

(a)

(b)

(c)

(d)

(e) . . (. .), . . , 가 (. .), . .

1) 가

2) 7

가



Ver. 1.1 「3. Ver. 「3.1」

() , IR-CA 「2 . 가」 「」
IR-CA 「2 .」 「」

1

0 50 ,
가 가 가
가 ,

2

가 , 가 가 .

3





1		
2		(가)
3		가 가 가
4		
5		



	(, 가)
	가 가 가 ,
	1500 () 가 (:IR-ZCLF)
	OFF
	가 가 ,
	가
	. .

	(가)
	가 가 ,
	, , 가 . . 가
	, 가 , 「 」
	, 가 .

/

1.	.....	1	7.	.....	14
1.1	.....	1	7. 1	.....	14
2.	.....	1	7. 2	.....	14
2. 1	IR - CA	1	7. 2. 1	가	14
2. 2	IR - CA	2	7. 2. 2	가	14
2. 3	.....	2	7. 2. 3	가	14
2. 4	.....	3	8.	.....	15
2. 5	.....	3	8. 1	.....	15
3.	.....	4	8. 1. 1	(=0.65μm)	15
3. 1	.....	4	8. 1. 2	(=0.9μm)	16
3. 2	5	8. 1. 3	(=1.55μm)	16
3. 2. 1	5	9.	17
3. 2. 2	5	9. 1	17
4.	6	9. 2	IR-CAQ	18
4. 1	6	9. 2. 1	IR-CAQ T ()	18
4. 2	6	9. 2. 2	IR-CAQ C ()	18
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4. 3. 1	IR-VAD	7	9. 2. 4	IR-CAQ C L ()	19
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4. 3. 4	8	9. 3. 1	() IR-ZCCH	21
4. 3. 5	laser () 	9	9. 3. 2	() IR-ZCCS	22
5.	10	9. 3. 3	IR-ZW	22
5. 1 	10	9. 3. 4	IR-VSW	23
5. 1. 1	.....	10	9. 3. 5	IR-ZCAP	23
5. 1. 1- 1)	(IR-ZCRC)	10	9. 3. 6	IR-ZCWC	23
5. 1. 1- 2)	(IR-ZCRL)	10	9. 3. 7	IR-ZCAF	24
5. 1. 2	.....	11	9. 3. 8	IR-ZCLF	24
5. 1. 2- 1	.....	11	9. 3. 9	() IR-ZCRT	24
5. 1. 2- 2	.....	11	9. 3.10	() IR-ZCRC	25
5. 1. 3	.....	12	9. 3.11	L IR-ZCRL	25
5. 1. 4	.....	12	9. 3.12	IR-VAD	25
6.	.....	13			
6. 1	.....	13			
6. 2	.....	13			

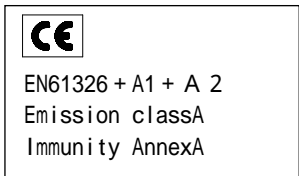
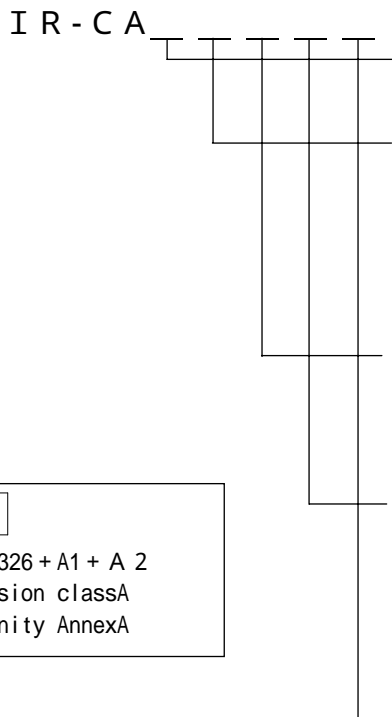
1.

1. 1

IR-CAQ , IR-CA 「2 . 가 」 . 가
 가 . 가
 DC 4 20mA . ,
 , 2 가 가 .

2.

2. 1 IR-CA



Q: InGaAs/ InGaAs/Si
 (가)
 2: 200
 0: 50()
 3: 300()
 7: Ø10 200()
 8: Ø10 300()
 C: *1
 T: *2
 R: IR-VCH *3
 N:
 S: RS-485()
 5: 4 20mA DC()
 J: ()
 K: ()
 .
 : Finder ()
 L: laser ()*3
 3: 300mm
 6: 600mm

*1 : 30m
 *2 : CE
 *3 : I

2.

2. 2 IR-CA

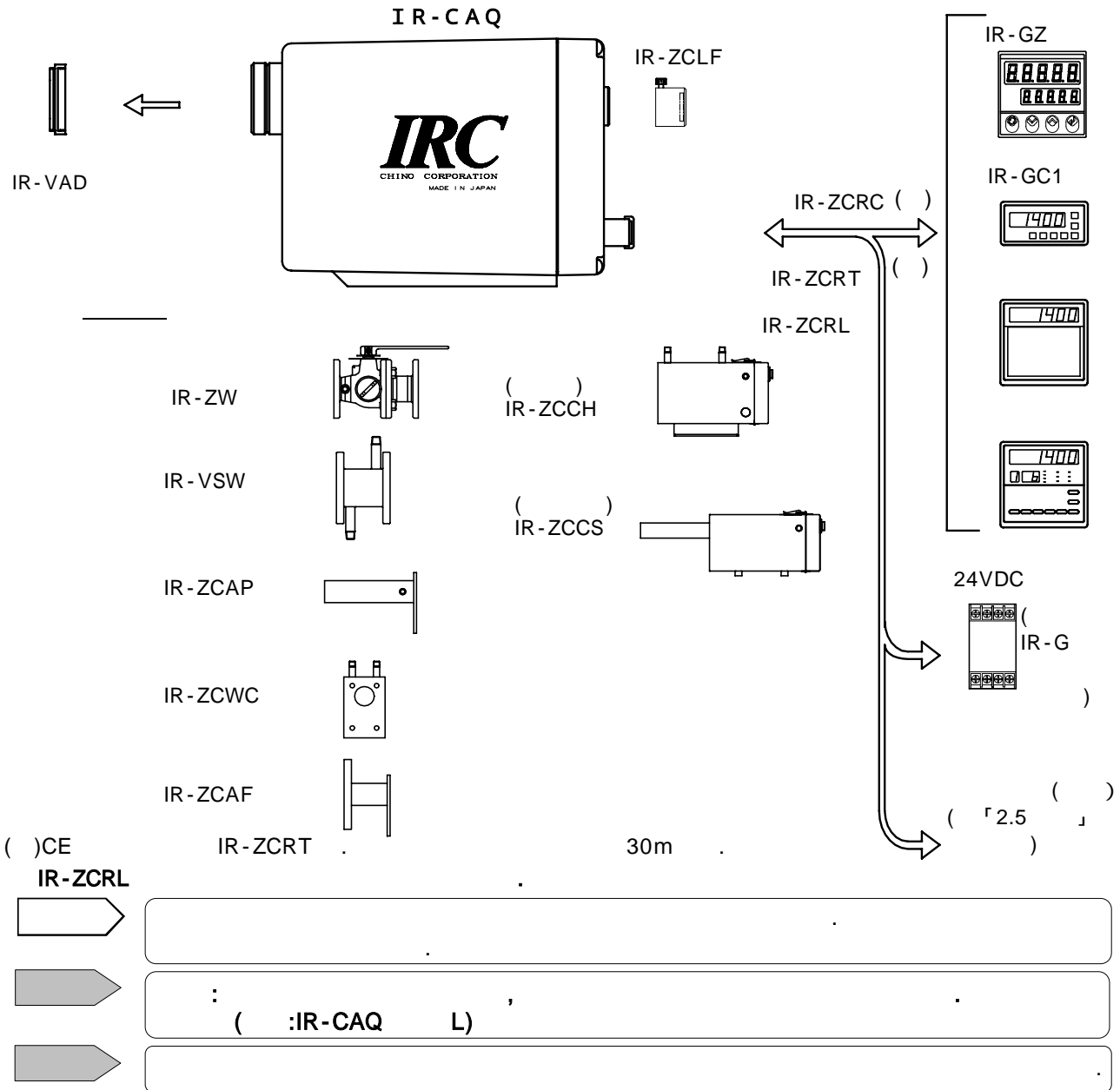
()	IR-ZCCS	C:	T:
()	IR-ZCCH	C:	T:
	IR-ZW	0:	1:CaF2 2: BaF2
	IR-VSW		
	IR-ZCAP		
	IR-ZCWC		
	IR-ZCAF		
	IR-ZCLF		
()	IR-ZCRC	:	(m)
()	IR-ZCRT	:	(m)
L	IR-ZCRL	:	(m) 50m

2. 3

	50		200		300		Ø10 mm 200		Ø10 mm 300	
	IR-CA Q	350	2000	400	3100	400	3100	500	3300	500	3500

2 .

2. 4



2. 5

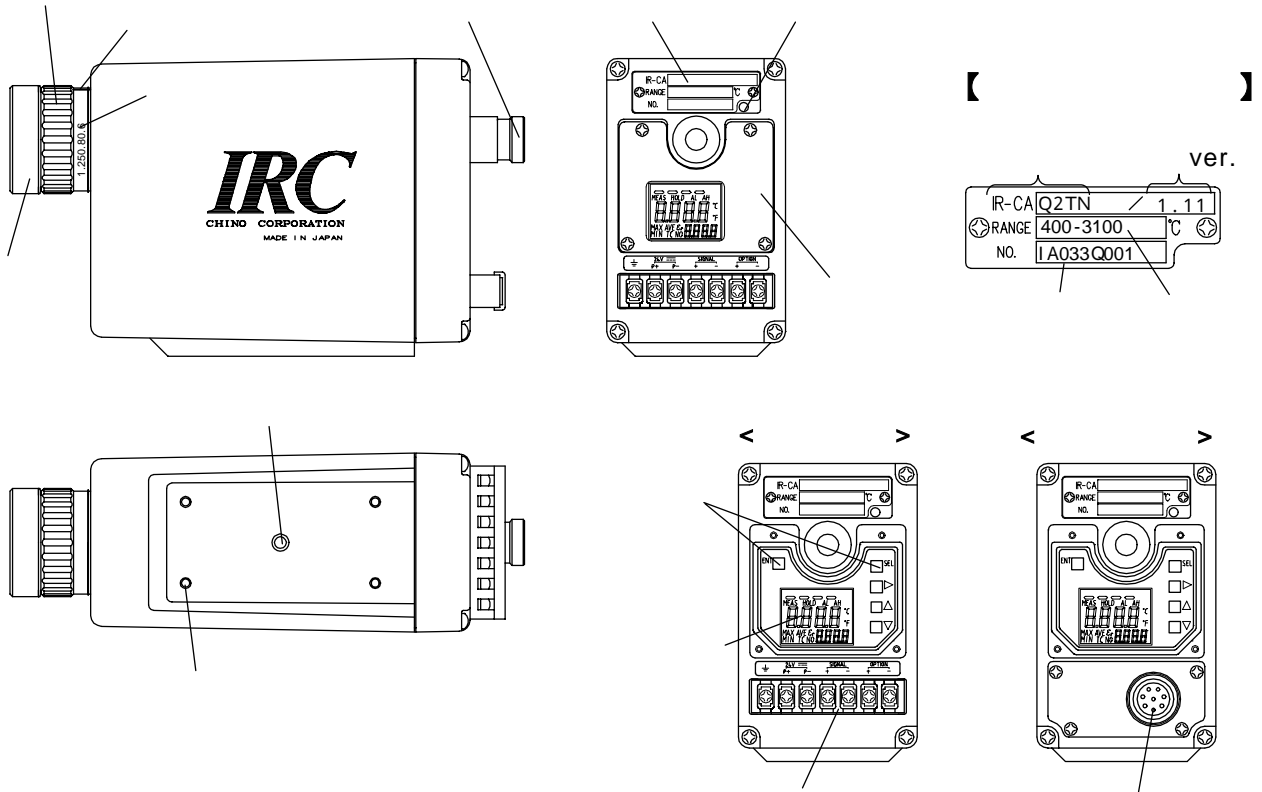
가
「2.1 IR-CA」

*	RS-485 (1)	IR-CA 「2」
*	:4 20mA DC	
*	1	
*	1 () 30V DC, 50mA	
laser	laser 1mW (645mm) 2	4.3.5 ()
	300 mm 190 300mm 600 mm 270 600mm	4.3.2

* 1 가

3.

3. 1



	가 가
	가
	. (0.5, 0.6, 0.8, 1, 2, 5,)
	(IR - VMS) 1/4 - 20UNC
	M4 4mm . (4)
	(24V DC)
	IR - CA , Ver, ,
	. M2.6
	5 「3.2.1」 「6.」
	: LCD 4 , : LCD 4 , : : , :C F (「3.2」 「3.2.2」)
(IR - CA T)	(IR - ZCRT) (「5.1.2」)
(IR - CA C)	(IR - ZCRC IR - ZCRL)

4.

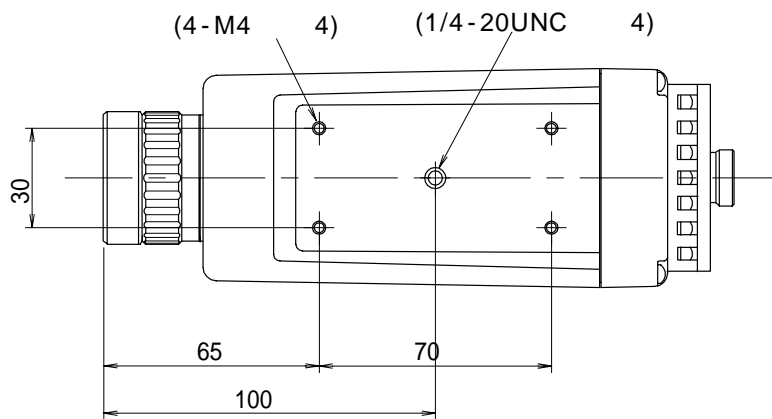
4. 1

IR-CAQ

- ▶ 가
- ▶ 가
- ▶ 0 50 가 50 가 . 50
- ▶ 가
- ▶ 가 . (.)

4. 2

(4)

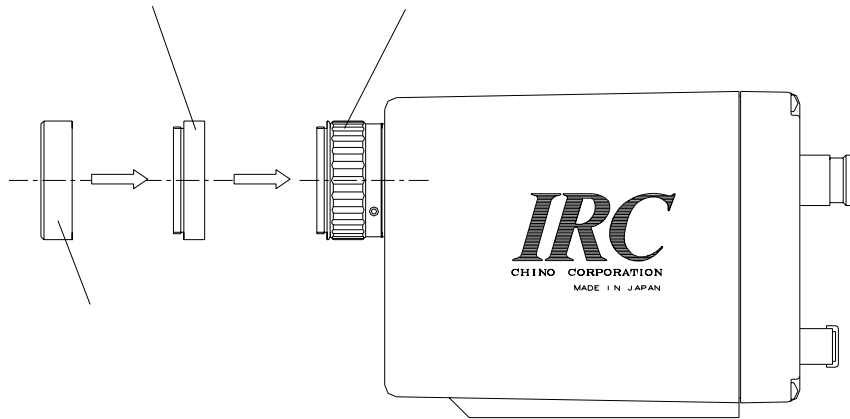


- ▶ 가 , 가 50 가 0 가 가 가 가

4. (「 3. 」)

4. 3

4. 3. 1 IR-VAD



4. 3. 2

$$\text{(mm)} = \quad \times \quad \text{(mm)}$$

1.5

	500mm
300mm (IR-VAD30)	190 300mm
600mm (IR-VAD60)	270 600mm

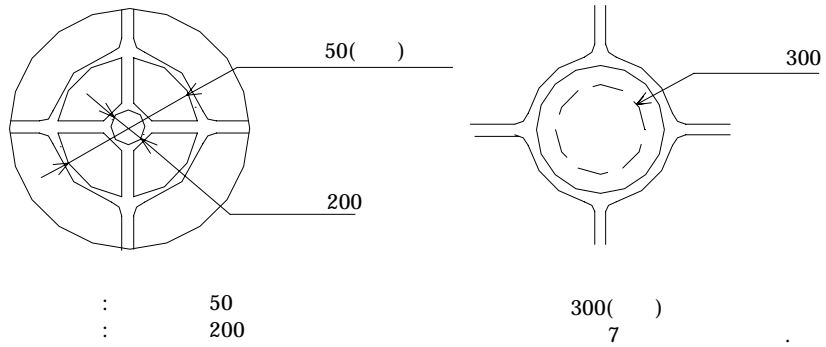
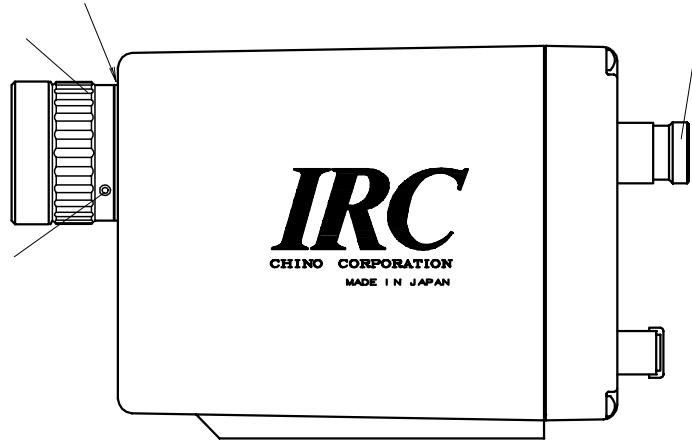
(: mm)

(m)	0.5	0.6	0.8	1	2	5	
300mm	190	200	220	230	260	285	300
600mm	270	300	350	380	460	540	600

4. (「 3. 」)

4. 3. 3 : IR-CAQ

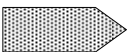
가



1500	(:IR-ZCLF)
1500	(:IR-ZCLF)

4. 3. 4 (:IR-CAQ , IR-CAQ 3, IR-CAQ 6)

(1.5)



Empty rounded rectangular box for notes or additional information.

4. (「3. 」)

4.3. 5 () : IR-CAQ L

「5. 」

{ }

1)

2)

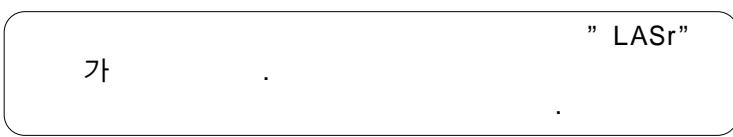
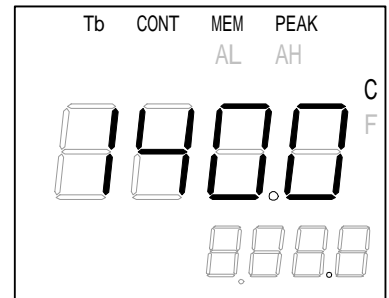
3)

4)



2

”LASr”

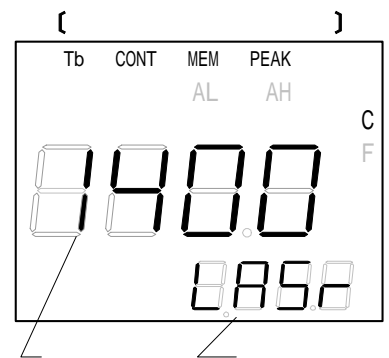


5)

”LASr” 가

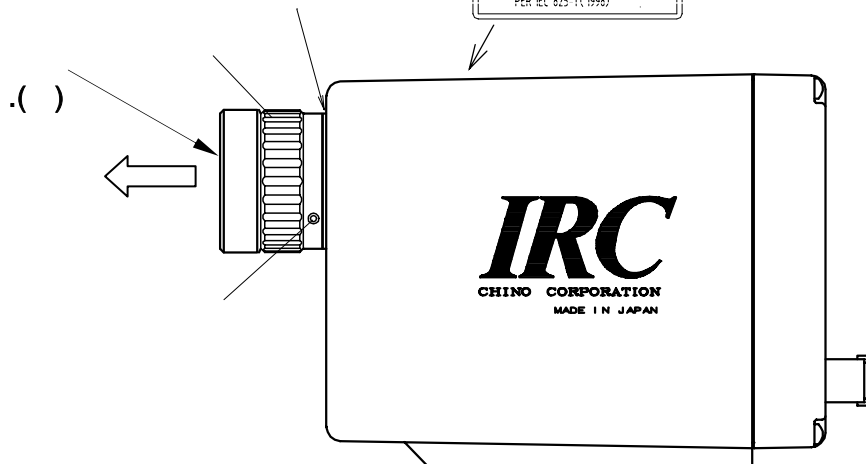
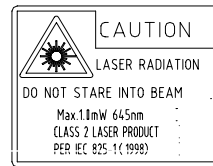
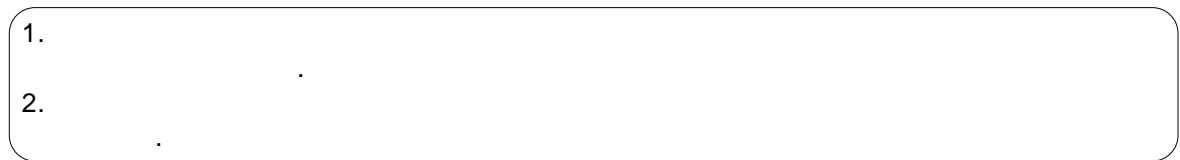
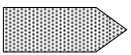


2



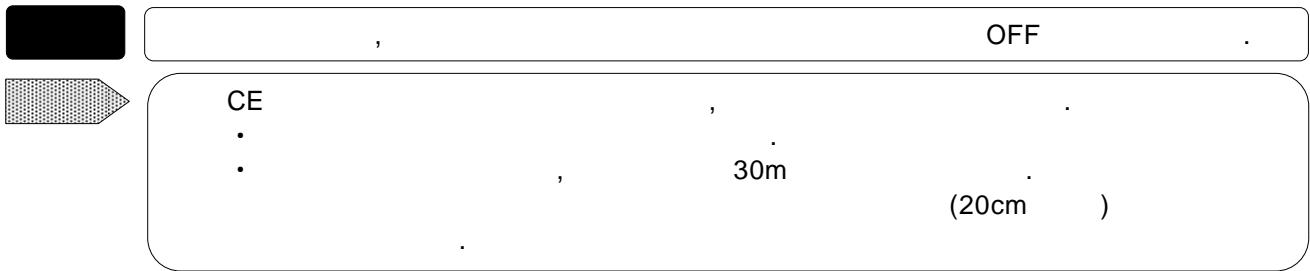
6)

”LASr” 가



5. (「 3. 」)

5. 1



5. 1. 1 (: IR-CAQ C)

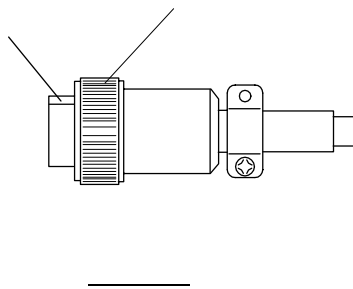
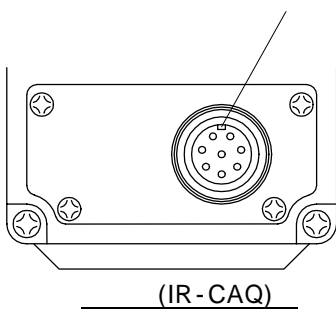
5. 1. 1-1) (IR-ZCRC)

IR-CAQ

(I R - Z C R C)

1)

2)



No.			
1	+	}	DC 4 20mA
2	-		
3 ^{*1}	+(* ² SA)	}	DC 24V
4 ^{*1}	-(* ² SB)		
5	+	}	DC 24V
6	-		
7	()		
8	--		

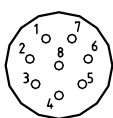
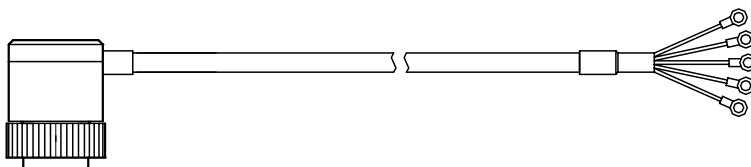
5. 1. 1-2) (IR-ZCRL)

IR-CAQ

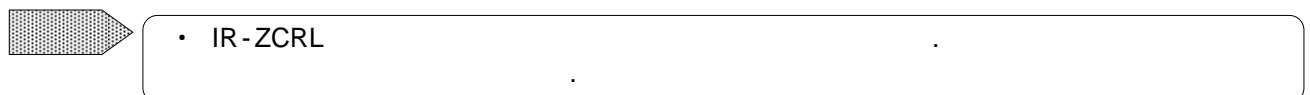
(I R - Z C R L)

1)

2)

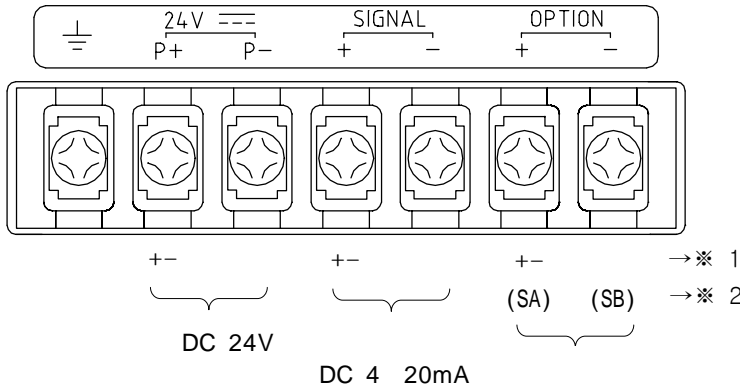


1	SIGNAL +	}	DC 4 20mA
2	SIGNAL -		
5	POWER +	}	DC 24V
6	POWER -		
8	EARTH()		



5.

5. 1. 2 (I R - C A Q T) (I R - Z C R T) ,
 IR-CAQ (M3)



케이블 사양
 • : 0.5mm²
 • : S X
 • : 3 P × 0.5mm²
 태양전선(株) 製 ()

- 1 : IR-CAQ 5 (DC 4-20mA)
- IR-CAQ J ()
- IR-CAQ K () +, -
- 2 : IR-CAQ S (RS-485) S A, S B

5. 1. 2- 1

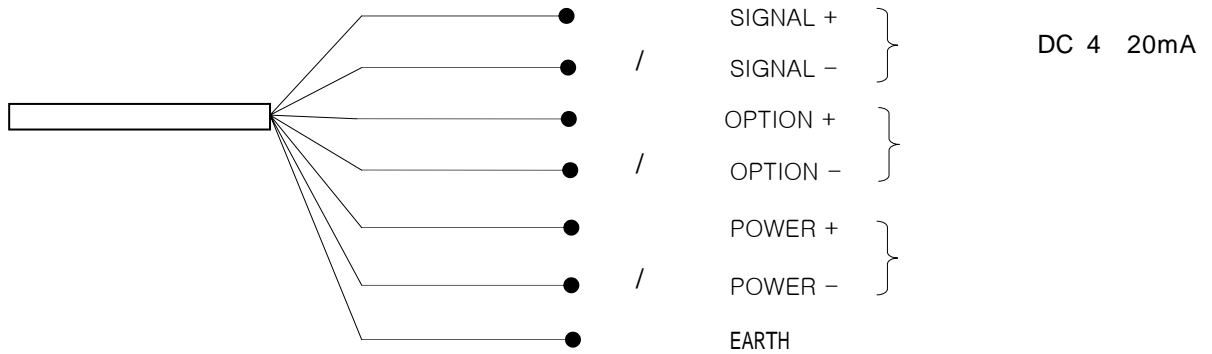
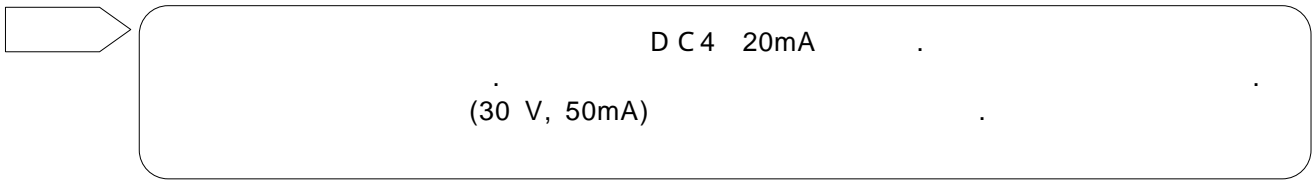
OFF

5. 1. 2- 2

3 (100)

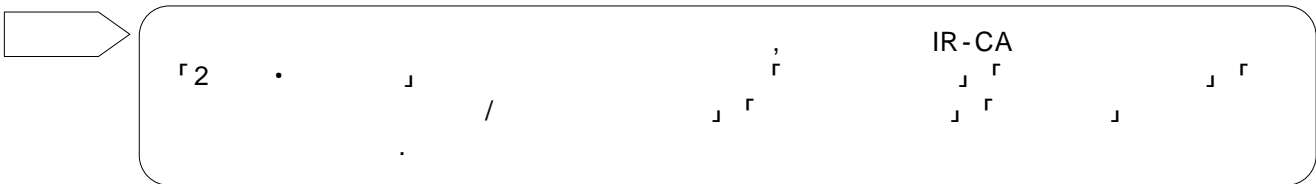
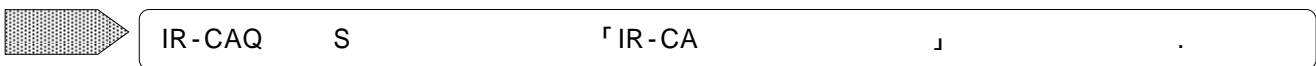
5.

5. 1. 3



5. 1. 4

- 1) IR-CAQ 5 (4 20mA DC) : +, -
- 2) IR-CAQ J () : +, -
- 3) IR-CAQ K () : +, -
- 4) IR-CAQ S (RS-485) : SA, SB



6.

6. 1

가 .

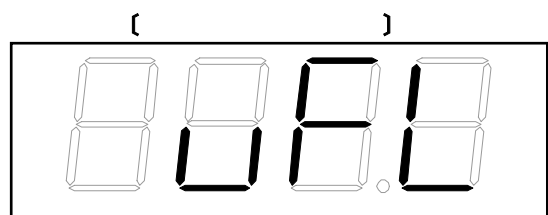
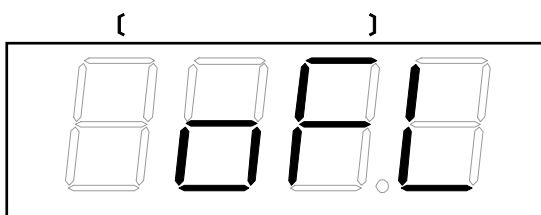
			()
		가 .	
	E ² PROM (E ² PROM)	가 .	
	가 ()		×
	(가)	, .	×
		0.001 , 가 1.999	×
		, 1.000 .	×



(OFF) .

6. 2

(+20) 가 가 .
(-20) 가 가 .



7.

7. 1

가



- 1. IR-CAQ L (:) , 가
- 2.

7. 2

7. 2. 1 , 가

1)	가?	
2)	가	
3)	가 가? 가?	「4.3」
4)	가? (가)	
5)	가?	IR-CA 「2」
6)	가 , 가 가?	

7. 2. 2 가

1)	가? (가)	
2)	(가?)	IR-CA 「2」
3)	가?	가

7. 2. 3 가

1)	가? 가?	
2)	, 가?	
3)	가?	
4)	가?	
5)	()가 가?	IR-CA 「2」
6)	가?	「, 「, 「, 「」

8.

8. 1

“ ” , 0.65μ m

8. 1. 1 (=0.65μ m)

	0.42	-	()	0.87
	0.37	-	()	0.87
	0.17	0.12	()	0.84
	0.32	-		0.25 0.5
	0.30	-	()	0.70
y t t r i u m	0.35	0.35	55Fe. 37.5Cr. 7.5Al ()	0.78
	0.54	0.34	70Fe. 23Cr. 5Al. 2Co ()	0.75
	0.14	0.22	80Ni. 20Cr ()	0.90
	0.07	0.07	60Ni. 24Fe. 16Cr ()	0.83
	0.34	0.39	()	0.85
P	0.35	-		0.22 0.4
	0.36	0.37	yttrium	0.60
	0.35	-		0.30
	0.32	0.30		0.75
	-	0.23	【 】	0.55 0.71
	0.18	-		0.18 0.43
	0.8 0.9	-		0.32 0.60
	0.43	-		0.58 0.82
	0.49	-		0.50
	0.37	0.40		0.63 0.98
	0.63	0.65		0.60 0.80
	0.35	0.37		0.20 0.57
	0.10	0.15		0.70
	0.54	0.34		0.07 0.37
8 0 N i . 2 0 C r	0.36	0.37		0.10 0.43
6 0 N i . 2 4 F e . 1 6 C r	0.35	-		
	0.36	-		
9 0 P t . 1 0 R h	0.30	0.38		
	0.27	-		
	0.33	0.38		
	0.35	0.35		
	0.29	-		
	0.61	0.61		
	0.59	0.59		
	0.37	0.40		
	0.24	0.30		

8.

8. 1. 2 (=0.9μ m) 8. 1. 3 (=1.55μ m)

	0.10 0.23
	0.015 0.02
	0.36
	0.28 0.30
	0.33 0.36
	0.03 0.06
	0.38 0.42
	0.50 0.62
	0.26 0.35
	0.25 0.30
	0.28 0.36

X	0.40 0.60
6 0 0	0.28
6 1 7	0.29
	0.85 0.93
8 0 0	0.29
	0.80 0.90
	0.30
X	0.30

	0.69 0.71
	0.60
	0.68

	0.80 0.83
	0.47 0.50
	0.89 0.90

	0.90 0.95
	0.87 0.92

	0.09 0.40
	0.34 0.80
	0.28 0.65
	0.05 0.80
	0.02
	0.30 0.85
	0.28 0.65
	0.24 0.75
	0.25 0.80
	0.25 0.85
	0.23
	0.22
	0.18
	0.04 0.10
	0.20 0.80
()	0.28 0.60
	0.50 0.80
	0.30
	0.32 0.55

	0.18 0.70
	0.30 0.80
, 가	0.22 0.60
f l a n n e l	0.30 0.85
	0.22 0.70
	0.28 0.85

	0.30
	0.80
	0.35
	0.60
	0.60
	0.50

(, ,)	0.90
	0.85
	0.85
	0.80
	0.95
	0.70
	0.80



9.

9.1

	IR-CAQ
	2 /
	InGaAs /InGaAs/Si
	1.55 μm /1.35μm /0.9μm
가	400 3100 (200, 300) 500 3500 (∅10 200, 300) 350 2000 (50)
1	1000 : ±5 1000 1500 : ±0.5% 1500 2000 : ±1.0% 2000 : ±2%
	0.2
EMC	0.2 / 0.02% / 가
	±10 ±1% 가
	1.0
	20ms
	50, 200, 300, ∅10mm 200, ∅10mm 300 () : 1999 0.050
	DELAY: (0.0 99.9s 0.1s) 0 REAL PEAK: (0, 2, 5, 10 /s) 0
	LCD4 (,) 1 (1000 ,), 0.1 (1000) / °F() , 가
	0.5m ∞ /
	()
	20mm
	DC 4 20mA 500 : ±0.2% : 0.04% 가 가 : 0 100%
	: , ' , ZERO · SPAN, : , ' ,
	· ZERO · SPAN ·
	0 50
	3G
	D C 24 V (: 22 28V) 2.4VA (CE , 30m)
	1.3kg
CE	EMC EN61326+A1+A2 Emission class A Immunity Annex A
2	1 , () DC 30V 50mA
	1 ,
	: DC 4 20mA ()
	R S 485:
laser	1mW 6(45nm), 2, · 6 (M3×L3) : (4.3.4) · 6 1.5 : (4.3.4) · : 1

1: ε=1.0,

2: 2

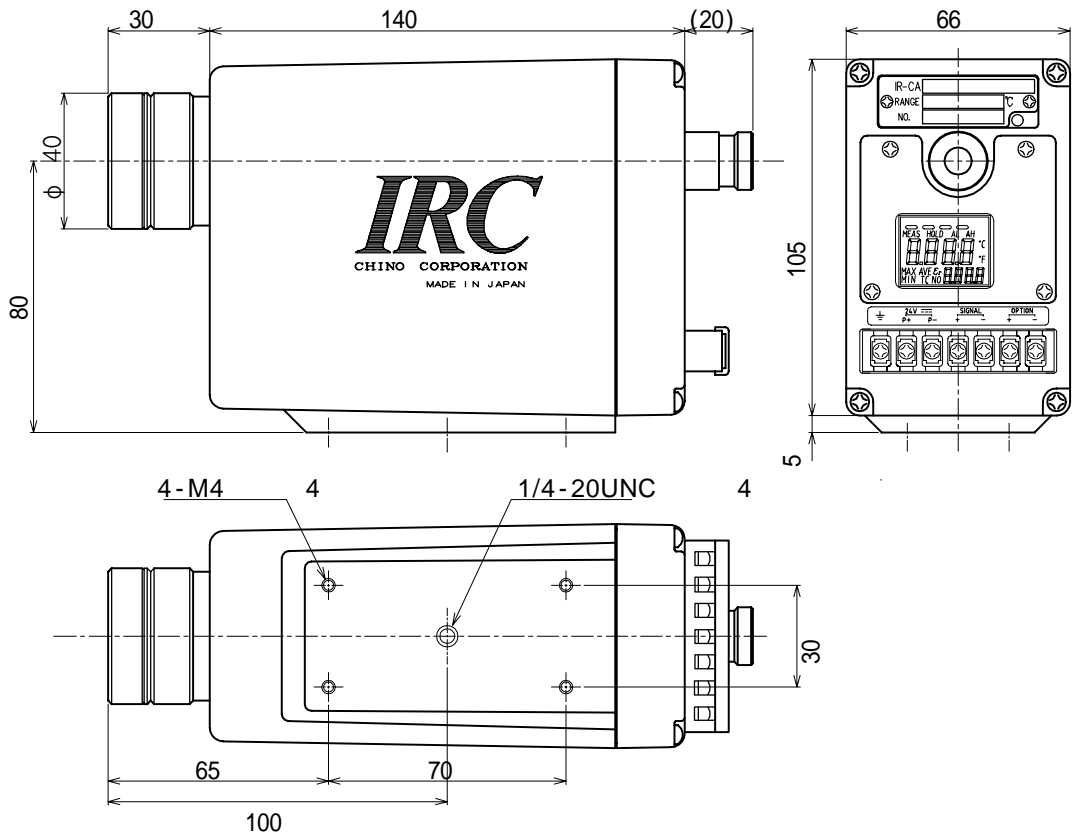
가 1

23 ±5 , 35 ~ 75%RH

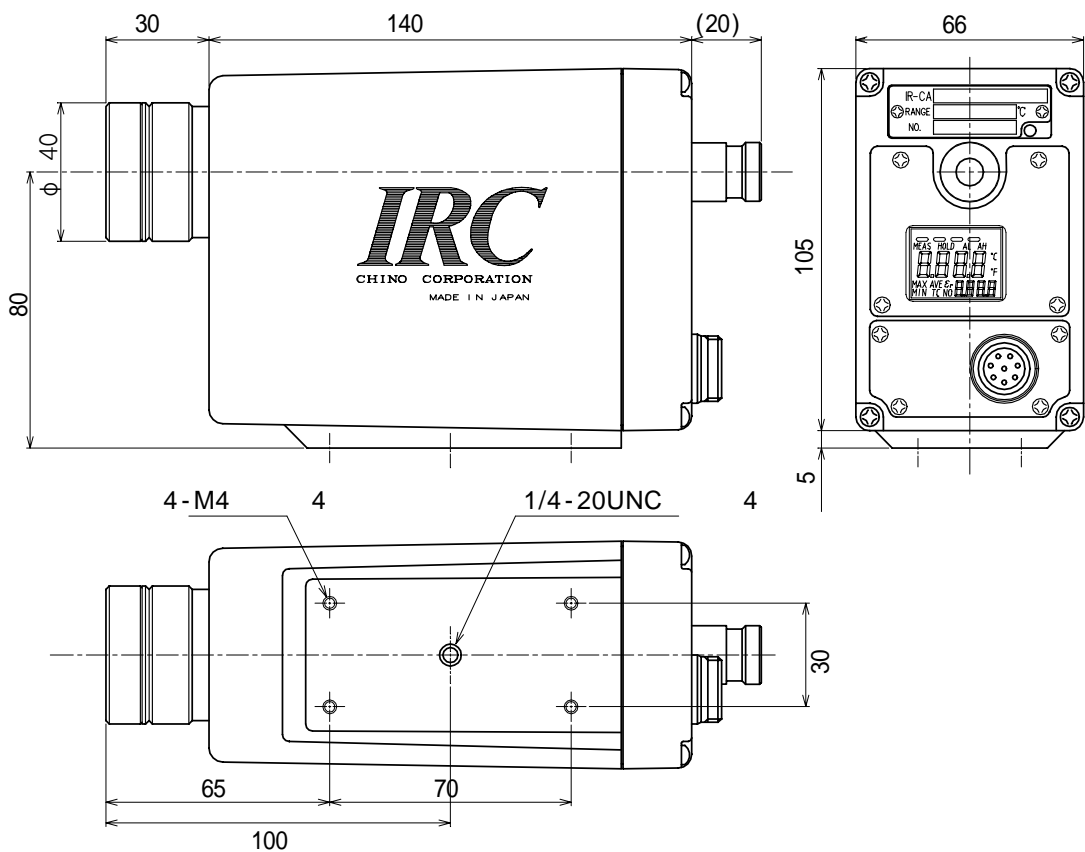
9.

9.2 IR-CAQ

9.2.1 IR-CAQ T ()

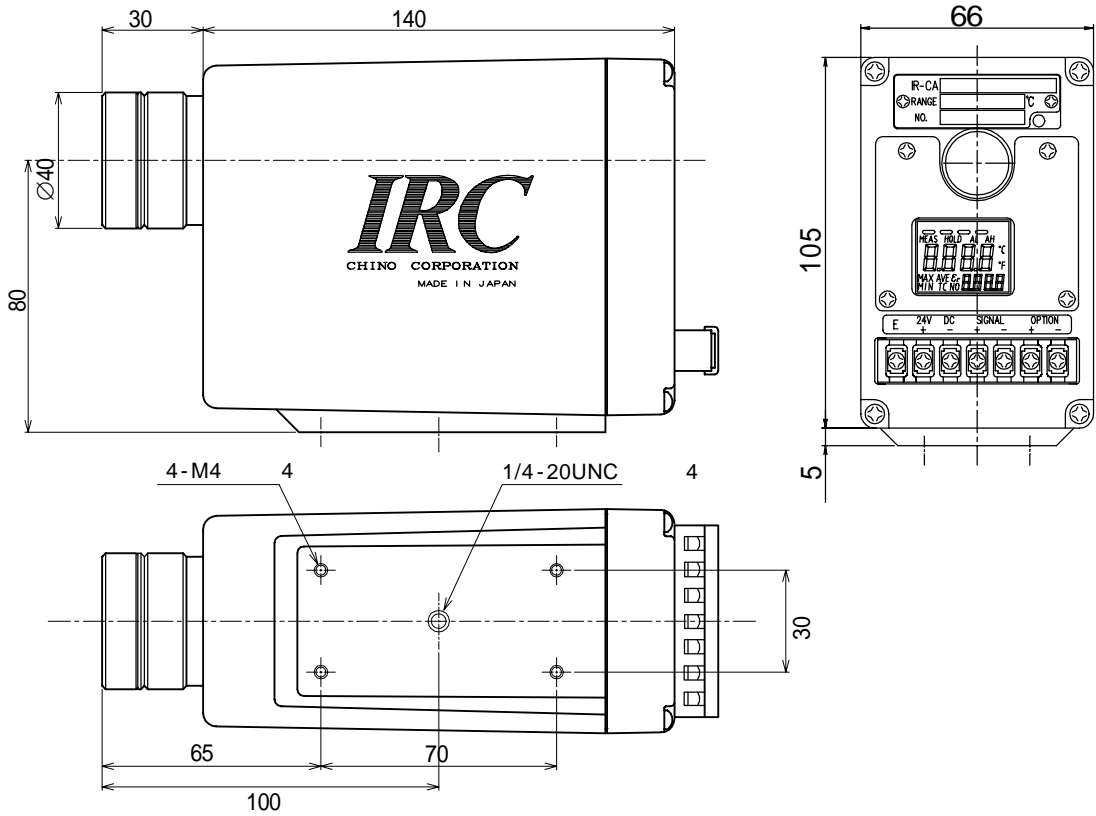


9.2.2 IR-CAQ C ()

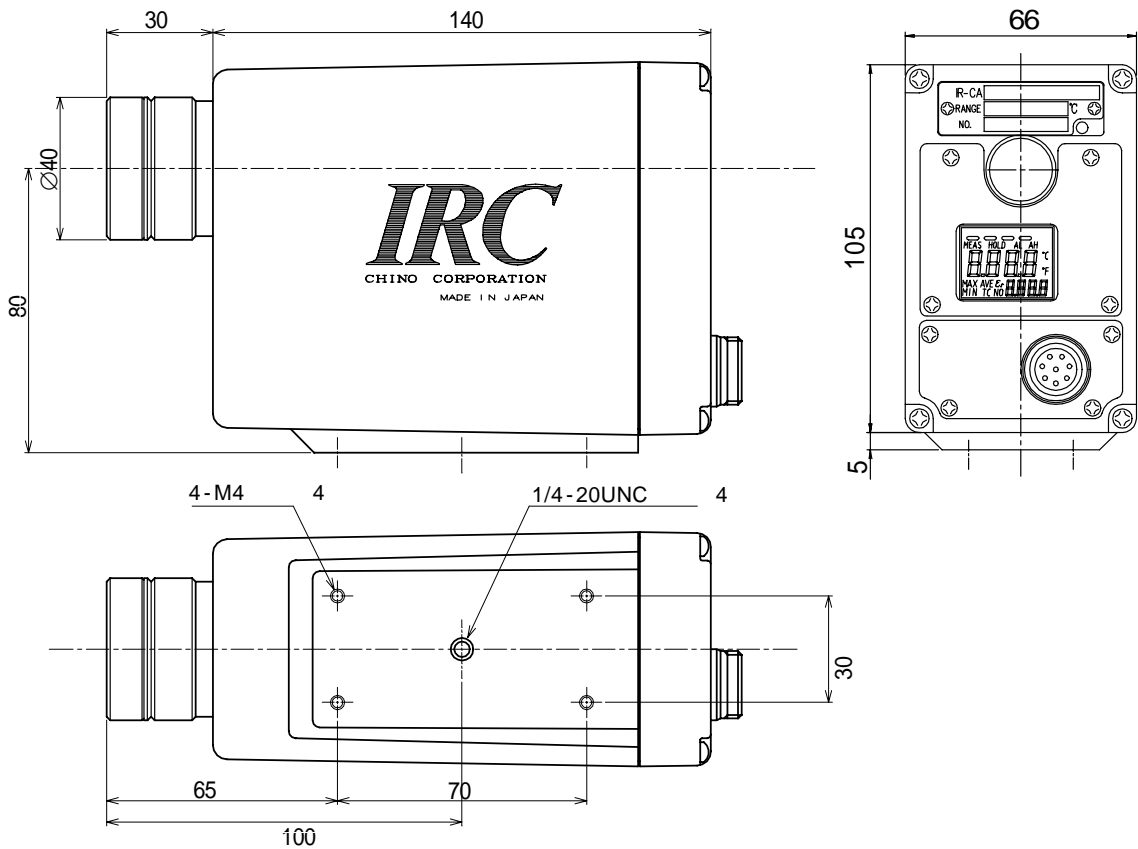


9 .

9.2.3 IR-CAQ T L ()

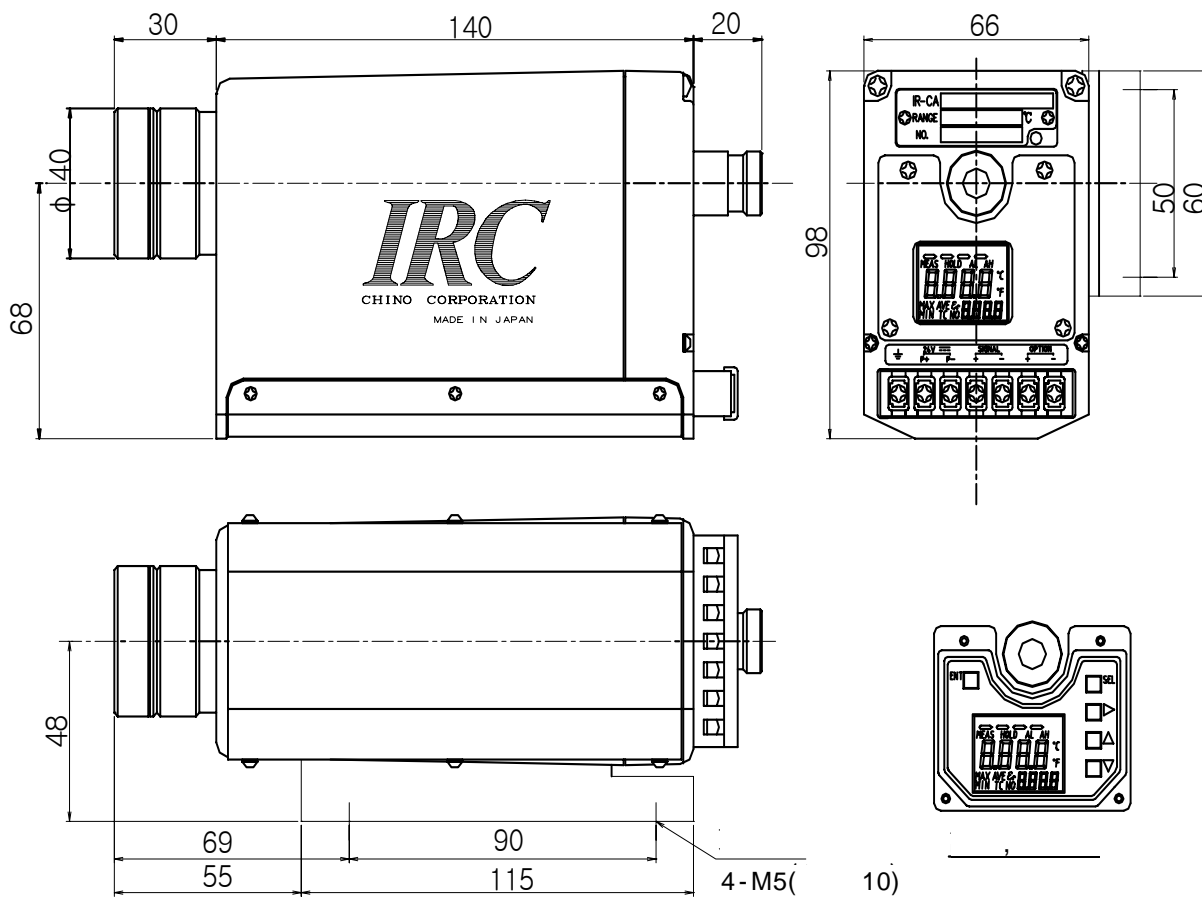


9.2.4 IR-CAQ C L ()



9.

9.2.5 IR-CAQ R (IR-VCH)

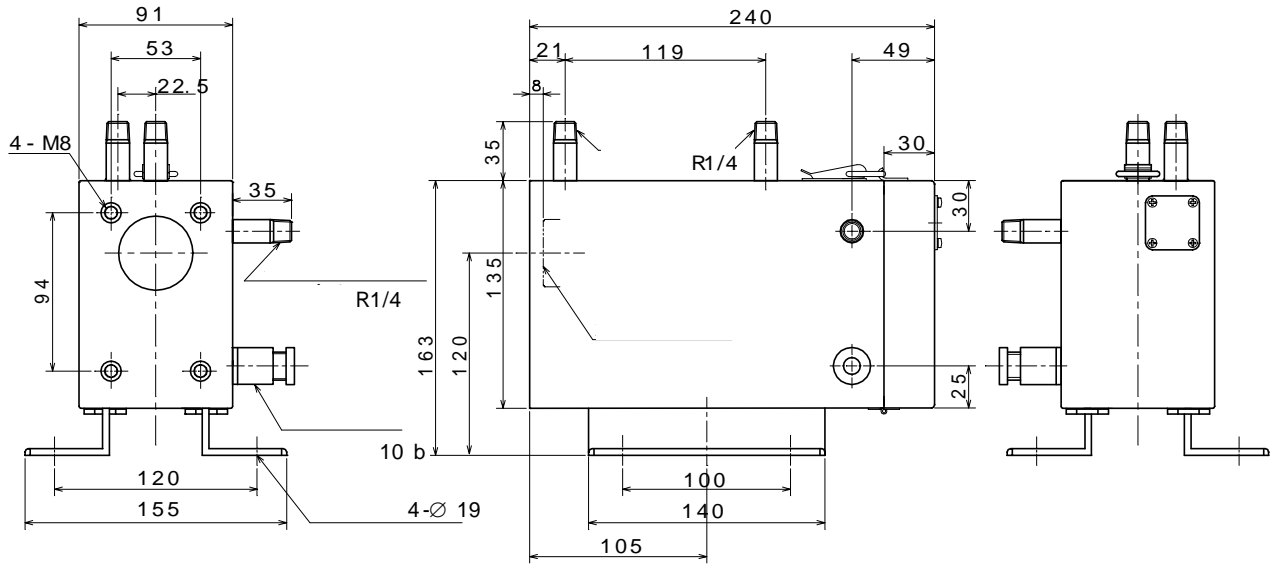


9.

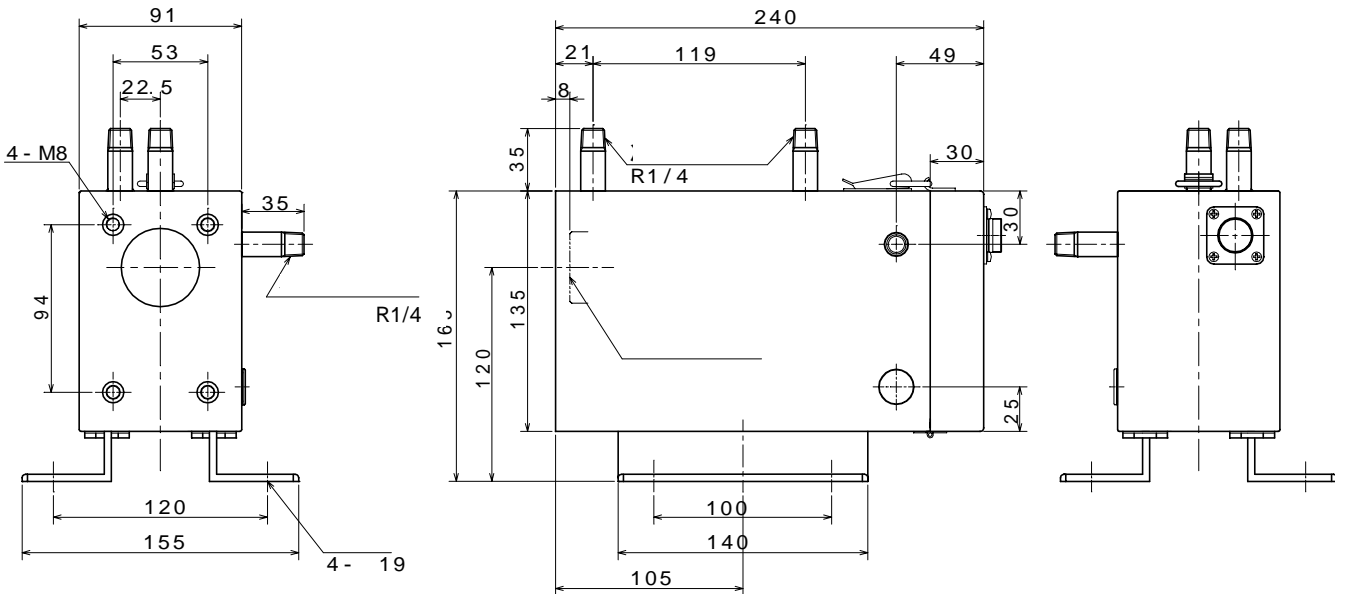
9. 3

9. 3. 1 () IR-ZCCH

IR-ZCCHT()

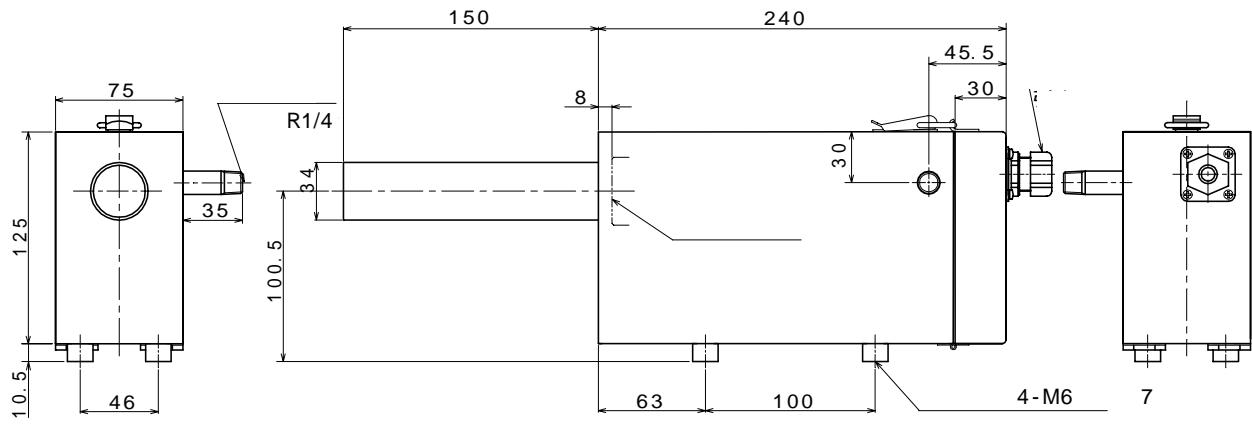


IR-ZCCHC()

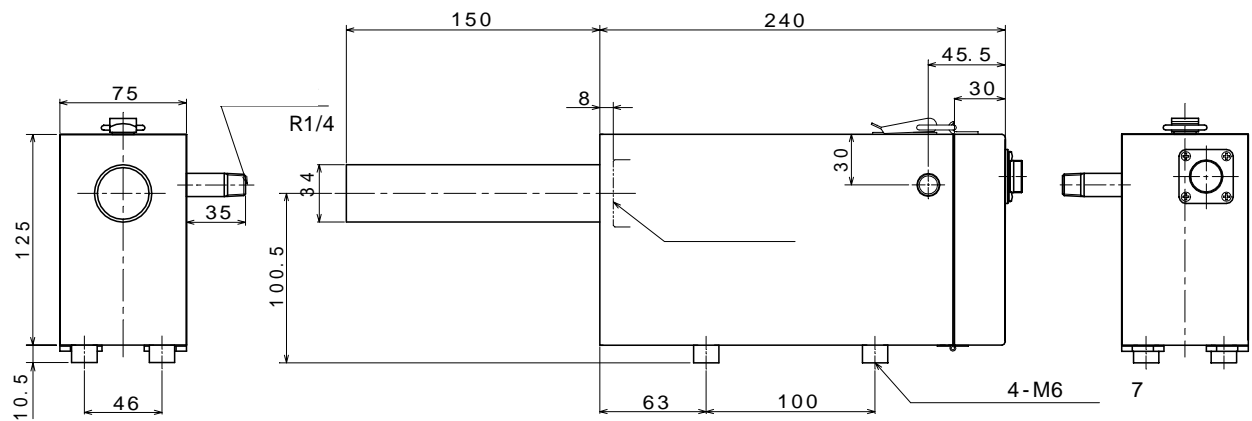


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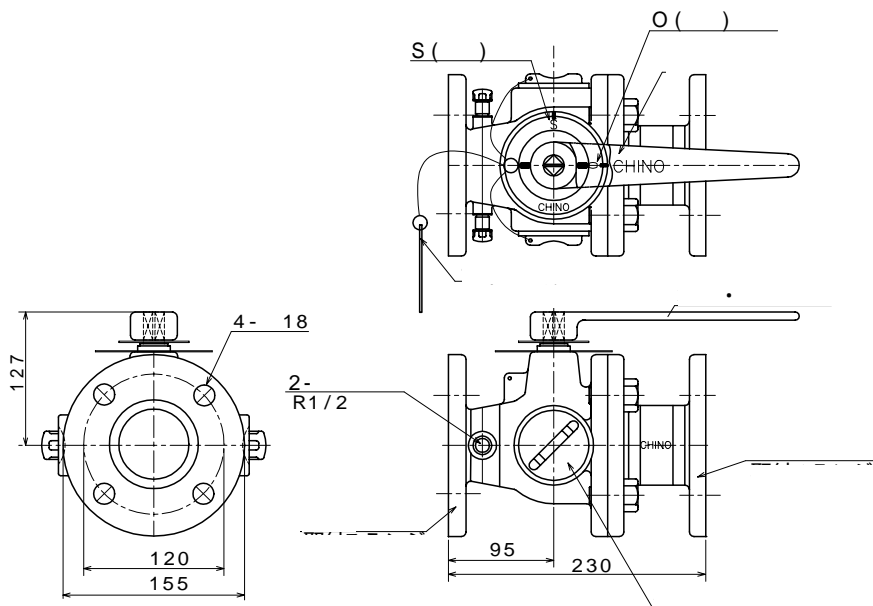
9.3.2 () IR-ZCCS
IR-ZCCST()



IR-ZCCSC()



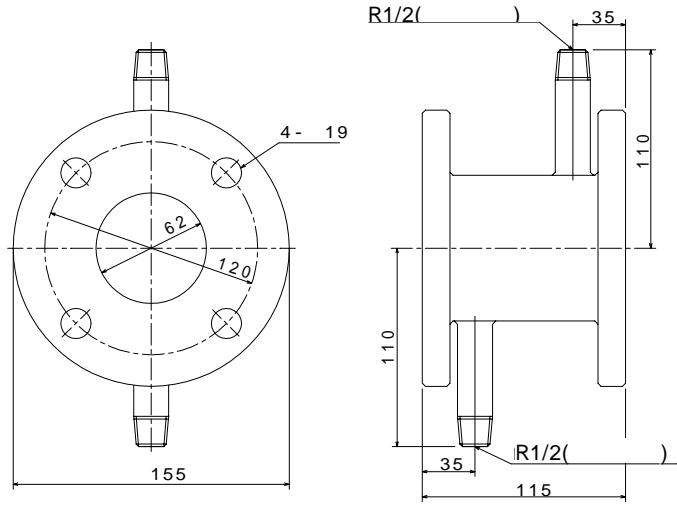
9.3.3 IR-ZW



9 .

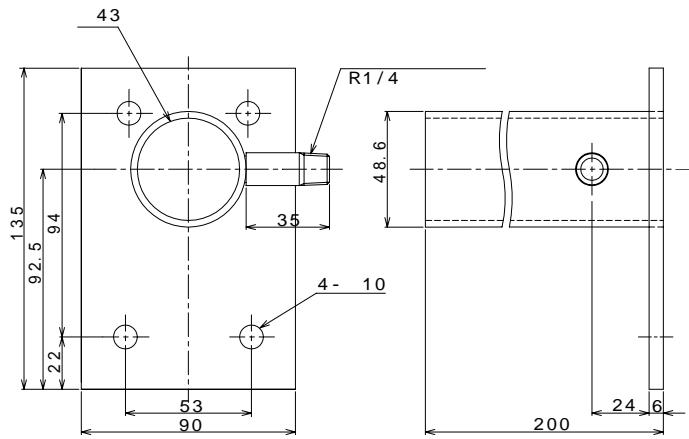
9. 3. 4

IR-VSW



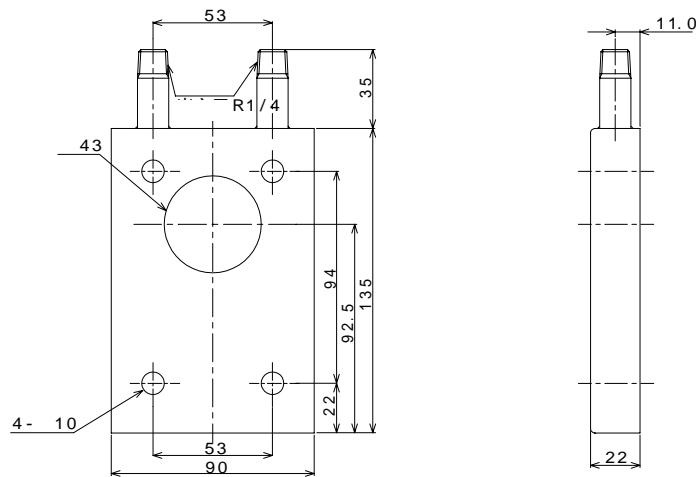
9. 3. 5

IR-ZCAP



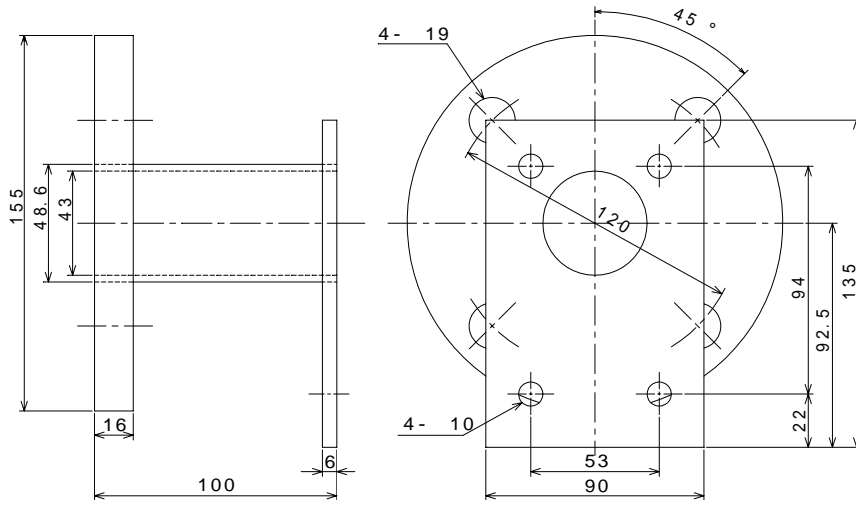
9. 3. 6

IR-ZCWC

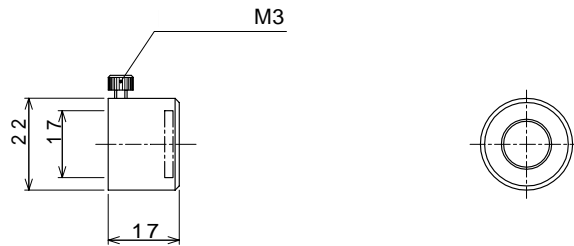


9.

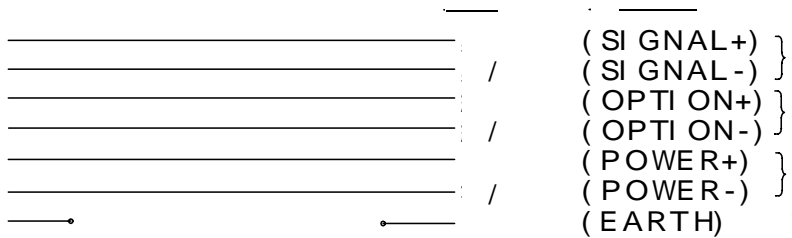
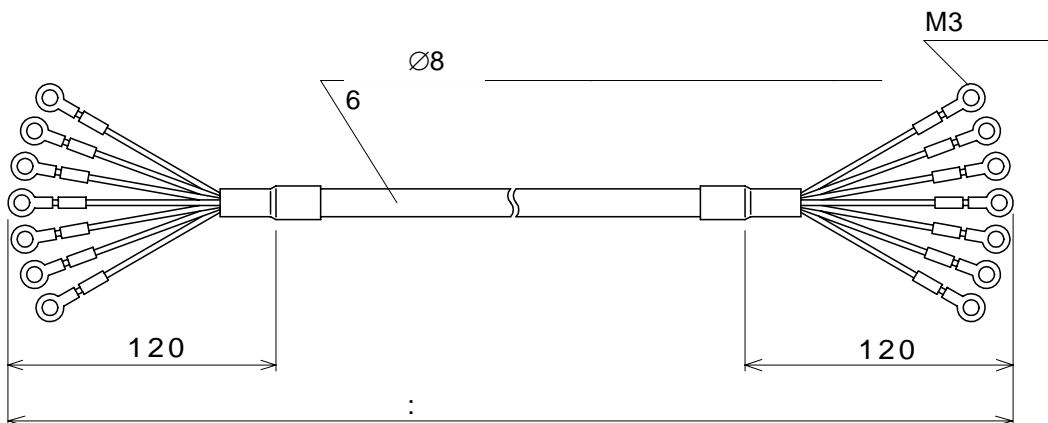
9. 3. 7 IR-ZCAF



9. 3. 8 IR-ZCLF

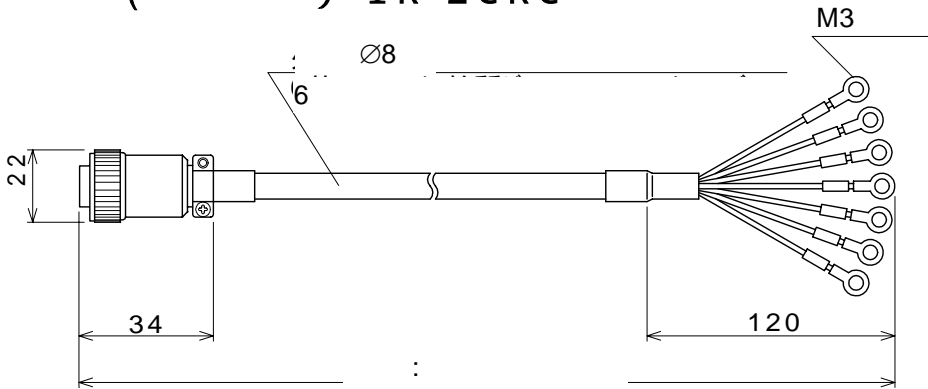


9. 3. 9 () IR-ZCRT

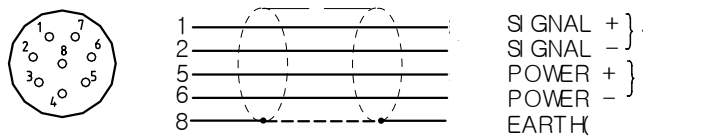
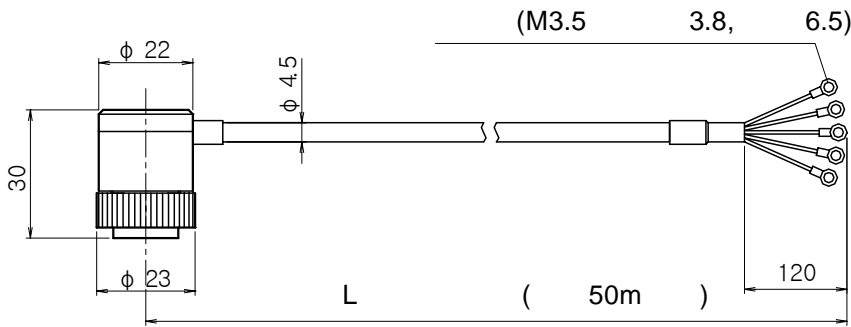


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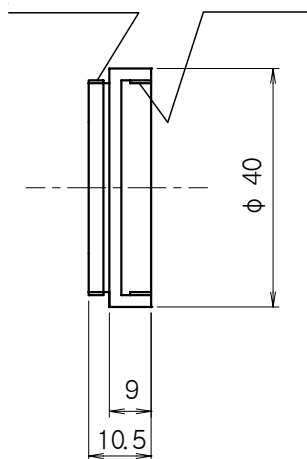
9. 3.10 () IR-ZCRC



9. 3.11 L IR-ZCRL



9. 3.12 IR-VAD



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