# General Specifications

ISC40□J Inductive Conductivity Sensors ISC40F□J Holders and Adapters

GS 12D06B01-01E

#### **■ GENERAL**

The ISC40□J sensors are designed for use with the FLXA<sup>™</sup>202/FLXA<sup>™</sup>212-wire Analyzer or FLXA<sup>™</sup>4024-wire Converter. This combination exceeds all expectations for conductivity measurement in terms of reliability, accuracy, rangeability and price performance.

This innovative inductive conductivity sensor provides highly accurate measurements over a wide measuring range (1  $\mu$ S/cm to 1999 mS/cm) and process temperature range (-10 to 130°C, -10 to 90°C for ISC40SJ-TW) without changing the cell constant and conducting recalibration.

The erosion/abrasion resistant PEEK (Poly Ether Ether Ketone), which also features excellent chemical resistance in all solutions except Fluoric Acid or Oxidizing Concentrated Acids.

The PEEK sensor is provided with a rugged Stainless Steel mounting thread/nut/ gasket combination for ultimate flexibility in installation using bulk head installation technique. There is also a wide range of holders and options available for reliable in-line or off-line installation with double O-ring seals for long service life of the sensor.

The ISC40 J have a large bore for optimal resistance to fouling processes and when properly installed, the flow will keep the sensor clean, to help avoid measuring errors.

#### **■ FEATURES**

- Inductive Conductivity technique for elimination of fouling and polarization errors.
- · Wide bore sensors for long term stability.
- Installation flexibility due to wide range of holders and due to the use of universal bulkhead construction.
- A single sensor can maintain the high resolution and accuracy, and measure the conductivity in an extremely brood range.
   Minimum span: 100 uS/cm

Minimum span: 100 μS/cm Maximum span: 1999 mS/cm



#### **■ APPLICATIONS**

- All applications where severe electrode fouling prevents the use of contacting electrodes.
- All ranges except (ultra) pure water applications.
- All slurry applications where conventional systems suffer from plugging or erosion.
- All applications where the 6 decade rangeability is necessary for accurate process control.

FLEXA, FLXA are registered trademarks or trademarks of Yokogawa Electric Corporation.

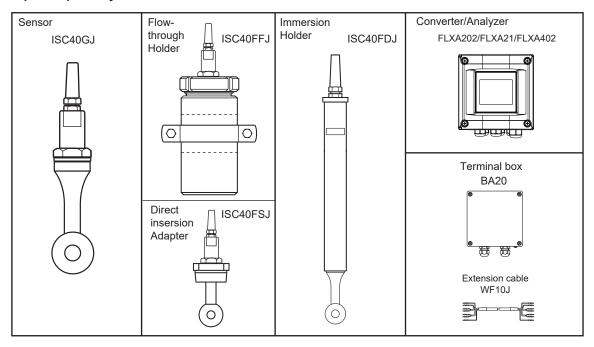
All other company and product names mentioned in this GS are registered trademarks or trademarks of their respective companies.



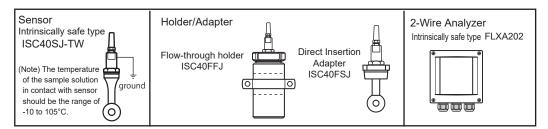
#### ■ SYSTEM CONFIGURATION

Refer to GS 12A01A03-01EN for the FLXA202, GS 12A01A02-01E for the FLXA21, GS 12A01F01-01EN for the FLXA402.

#### Non-explosionproof System



#### Explosionproof System (FLXA202 + ISC40SJ-TW)



#### **■ GENERAL SPECIFICATION**

#### 1. ISC40□J Inductive Conductivity Sensor

Compatibility:

ISC40GJ is compatible with FLXA202/ FLXA21 2-wire Analyzer, FLXA402 4-wire Converter.

ISC40SJ-TW is compatible with FLXA202 2-wire Analyzer.

Measuring range: 1 μS/cm to 1999 ms/cm
Output span: 1 μS/cm to 1999 ms/cm
Minimum 100 μS/cm
Maximum 1999 mS/cm

Process temperature:

-10 to 130°C for continuous exposure.
Suitable for steam-sterilisable applications.

Process pressure:

Dependent on installation; but <2 MPa (300 psi).

Note: Process temperature and pressure depend on specification of holders and adapters.

Process flow: Maximum 5 m/s.

Wetted materials:

Sensor; PEEK (Poly Ether Ether Ketone).
O-ring; Fluoro-rubber (FKM) or ethylene propylene copolymer rubber.

Adapter (optional); Stainless steel (316 SS) or

PVC or PVDF.

Non-wetted materials:

Sensor thread; Stainless steel (304 SS). Retaining nut; Stainless steel (304 SS). Cable; Weatherproof vinyl.

Process connection:

With retaining nut on G3/4 thread of sensor top (refer to section Drawings and Dimensions) for bulkhead mounting; optional process adapters or process fittings.

Process adapters:

JIS 10K 50 RF flange adapter

(Material: Stainless steel (316 SS))

JIS 10K 50 FF flange adapter

(Material: PVC or PVDF) DIN PN16 DN50 flange adapter ANSI Class 150 2 flange adapter

R2 screw-in adapter

Cable length: 5 m, 10 m, 15 m, 20 m

The length into extension cable is inside of

Extension cble can not be used with ISC40SJ-TW.

Dimensions:

Refer to section Drawings and

Dimensions.

Weight: Sensor: approximately 0.6 kg. (Note) Do not submerge the sensor itself in process water, as the seems between the mold and the metal of the sensor are not waterproof. Since a temperature sensor is imbedded in the PEEK molded sensor, its response speed is not fast. Install another temperature sensor if necessary.

ISC40SJ-TW Intrinsically safe type sensor

TIIS certification sensor shoule be used with ISC40SJ

Protection Concept and Adapter Group:

Ex ia IIC T4 Intrinsic safe rating:

Ui=11.94 V, Ii=61.5 mA, Pi=183.4 mW, Li=4.0 mH,

Ci=100 µF

Ambient temperature: -20 to 60°C

The temperature of the sample solution in contact with sensor should be the range of -20 to 90°C.

#### ISC40FDJ Immersion Holder

Process temperature: Maximum 80°C.

Process pressure: Maximum 0.2 MPa at 20°C.

Maximum 0.1 MPa at 80°C.

Wetted materials:

Holder: C-PVC or Stainless steel (316 SS) Fluoro-rubber (FKM) or O-ring:

ethylene propylene

copolymer rubber.

PP or Stainless steel (316 SS) Flange (Optional):

Gasket: Chloroprene or

ethylene propylene copolymer rubber.

Process connection:

Fixing flange (Optional):

DIN PN10 DN50 (ANSÍ 2 inch 150 lbs. with bolt holes):

Material PP

JIS 10K 50 RF

Material Stainless steel (316 SS)

2-inch pipe

Mounting set (Optional): Zinc-plated steel.

#### 3. ISC40FFJ Flow Holder

Process temperature:

ISC40FFJ-SA. -SJ: Maximum 150°C. Maximum 100°C. ISC40FFJ-PA, -PJ: Maximum 130°C. ISC40FFJ-FA, -FJ:

Process pressure:

ISC40FFJ-SA, -SJ: Maximum 1.0 MPa at 150°C. ISC40FFJ-PA, -PJ: Maximum 0.6 MPa at 20°C.

Maximum 0.1 MPa at 100°C. Maximum 1.0 MPa at 20°C. ISC40FFJ-FA, -FJ: Maximum 0.1 MPa at 130°C.

Wetted materials:

ISC40FFJ-S□: Stainless steel (316 SS)

ISC40FFJ-P□: Polypropylene

ISC40FFJ-F□: PVDF

Fluoro-rubber (FKM) or ethylene O-ring:

propylene copolymer rubber.

Non-wetted materials:

Stainless steel (304 SS)

Mounting set (Optional): Stainless steel (304 SS) Flange adapters (Optional): Stainless steel (304 SS)

Process connection:

1/2NPT or Rc1/2

DIN PN10 DN25 flange adapters (Optional) JIS 10K 25 RF flange adapters (Optional)

#### 4. ISC40FSJ Direct Insertion Subassembly

Process temperature:

ISC40FSJ-STWJ: Maximum 110°C. ISC40FSJ-SCWJ, -SCSJ: :Maximum 150°C. ISC40FSJ-PCSJ: Maximum 100°C. Maximum 130°C. ISC40FSJ-FCSJ:

Proces pressure: ISC40FSJ-STWJ: Maximum 1.0 MPa at 110°C. ISC40FSJ-SCWJ, -SCSJ: Maximum 1.0 MPa at 150°C. ISC40FSJ-PCSJ: Maximum 0.6 MPa at 20°C.

Maximum 0.1 MPa at 100°C. ISC40FSJ-FCSJ: Maximum 1.0 MPa at 20°C. Maximum 0.1 MPa at 130°C.

Materials:

Wetted materials:

ISC40FSJ-STWJ: Stainless steel (316L SS),

silicon rubber.

ISC40FSJ-SCWJ, -SCSJ:

Stainless steel (316 SS), Fluoro-rubber or ethylene

propylene copolymer rubber.

Polypropylene, Fluoro-rubber ISC40FSJ-PCSJ:

or ethylene propylene copolymer rubber.

PVDF, Fluoro-rubber or ISC40FSJ-FCSJ:

ethylene propylene copolymer rubber.

Non wetted materials: ISC40FSJ-STWJ:

IDF clamp;SCS13.

ISC40FSJ-SCWJ, -SCSJ, -PCSJ, -FCSJ:

Stainless steel (304 SS). Nut:

Process connection:

ISC40FSJ-STWJ: IDF 3 inch tri-clamp.

coupling. ISC40FSJ-SCWJ:

ISC40FSJ-SCSJ-PCSJ-FCSJ: R2 screw-in coupling. Dimensions: Refer to section Drawings and Dimensions.

#### 5. BA20 Terminal Box

Use when FLXA202/FLXA21 analyzer or FLXA402/ ISC450G converter is separated from ISC40□J sensor and is set up.

Ambient temperature: -10 to 50°C IP54 agreement Construction:

Article of cast metal of aluminum alloy Case material:

Cable inlet: 2 (Pg13.5) Straight gray Case color: Approx. 2 kg Weight:

Note: BA20 can not be used with ISC40SJ-TT.

#### WF10J Extension Cable

Number of mind Lines: Finish outside diameter: 7.7 mm

Terminal processing: Special terminals Material: Weatherproof vinyl. Note: WF10J can not be used with ISC40SJ-TT.

#### ■ MODEL AND SUFFIX CODES

## 1. Inductive Conductivity Sensors Non-explosionproof type

[Style:S1]

Model Suffix		Suffix Option		Description				
ISC40GJ		ue	code	General purpose inductive conductivity sensor				
Construction	-GG			Standard type				
Temperature sensor	-T -T	-		Pt1000 (*1) Thermistor				
Cable length, end type	cable	-05 -10 -15 -20 -X1 -X2 -X3 -X4 -Y1 -Y2 -Y3 -Y4		5 m (pin terminals) (*2) 10 m (pin terminals) (*2) 15 m (pin terminals) (*2) 20 m (pin terminals) (*2) 5 m (M4 ring terminals) (*3) 10 m (M4 ring terminals) (*3) 15 m (M4 ring terminals) (*3) 20 m (M4 ring terminals) (*3) 5 m (M3 ring terminals) (*4) 10 m (M3 ring terminals) (*4) 15 m (M3 ring terminals) (*4) 20 m (M3 ring terminals) (*4)				
Option Adapter O-ring, gask	et		/SFJ /PFJ /FFJ5 /SFD /SFA /SSG /PSG /FSJ /EP	JIS 10K 50 RF Flange 316 SS JIS 10K 50 FF Flange PVC JIS 10K 50 FF Flange PVDF DIN PN16 DN50 Flange 316 SS ANSI Class 150 2 Flange 316 SS R2 screw-in adapter 316 SS R2 screw-in adapter PVC R2 screw-in adapter PVDF Ethylene propylene rubber O-ring or gasket (*5)				

- \*1: Choose thermistor (-T3) only, when connecting with ISC200G.
- \*2: Used for connection to FLXA402, FLXA202/FLXA21, ISC202G. When terminal box is used, select BA20.
- \*3: Used for connection to FLXA202/FLXA21. When terminal box is used, select BA20/XT.
- \*4: Used for connection to FLXA402, ISC450G, ISC202G/TB. When terminal box is used, select BA20/YT.
- \*5: For use in highly alkaline solutions, be sure to check the process conditions and contact us.

#### **Explosionproof type**

[Style:S2]

Mardal	S	uffix	Option	December 1				
Model	code		code	Description				
ISC40SJ				Intrinsic safe inductive conductivity				
				sensor				
Construction	-G	G		TIIS certification type (for ISC200S)				
	-T1	Γ		TIIS certification type (for ISC202SJ)				
	-T\	N		TIIS certification type (for FLXA202/				
	L			FLXA21) (*5)				
Temperature	-	T1		Pt1000 (*1)				
sensor	-	T3		Thermistor				
Cable length,		-05		5 m (pin terminals) (*3)				
cable end type	Э	-10		10 m (pin terminals) (*3)				
		-15		15 m (pin terminals) (*3)				
		-20		20 m (pin terminals) (*3)				
		-X1		5 m (M4 ring terminals) (*4)				
		-X2		10 m (M4 ring terminals) (*4)				
		-X3		15 m (M4 ring terminals) (*4)				
		-X4		20 m (M4 ring terminals) (*4)				
Option			/SFJ	JIS 10K 50 RF Flange 316 SS				
Adapter			/PFJ	JIS 10K 50 FF Flange PVC				
			/FFJ5	JIS 10K 50 FF Flange PVDF				
			/SFD	DIN PN16 DN50 Flange 316 SS				
			/SFA /SSG	ANSI Class 150 2 Flange 316 SS				
			/SSG /PSG	R2 screw-in adapter 316 SS R2 screw-in adapter PVC				
			/FSJ	R2 screw-in adapter PVDF				
O-ring, gasket			/EP	Ethylene propylene rubber O-ring				
O-IIIIg, gasket			/ <del>-</del> -	or gasket (*2)				

- \*1: Choose thermistor (-T3) only, when connecting with ISC200S.
- \*2: For use in highly alkaline solutions, be sure to check the process conditions and contact us.
- \*3: Used for connection to only ISC202S (-GG), ISC202SJ (-TT).
- \*4: Used for connection to only FLXA202/FLXA21 (-TW).
- \*5: A dedicated thread for ground terminal is supplied as accessory.

Note: "TIIS Certification" is a certified explosion approval from the Technology Institution of Industrial Safety.

#### 2. Immersion Holder

Model	Suffix code	Option code	Description					
ISC40FDJ			Immersion holder					
Material	-V -S		Immersion probe C-PVC Immersion probe 316 SS					
Pipe length	-10 -15 -20		1.0 m 1.5 m 2.0 m					
	unting dware	/FA /FBJ /MS1 /MS2 /EP	DIN PN10 DN50 Flange PP (Can be selected for -V) (ANSI Class 150 2 with Bolt-holes) JIS 10K 50 RF Flange 316 SS Mounting hardware for immersion type: 1 set Mounting hardware for immersion type: 2 set Ethylene propylene rubber (*1)					

Note: ISC40FDJ is not used for ISC40SJ-TW.

<sup>\*1:</sup> For use in highly alkaline solutions, be sure to check the process conditions and contact us.

#### 3. Flow-through Holder

Model	Suffix code	Option code	Description					
ISC40FFJ			Flow-through holder					
Material	-PJ		Rc1/2 Polypropylene (PP)					
	-PA		1/2NPT female Polypropylene (PP)					
	-SJ		Rc1/2 316 SS					
	-SA		1/2NPT female 316 SS					
	-FJ		Rc1/2 PVDF					
	-FA		1/2NPT female PVDF					
Option Mounting		/MS	Wall/pipe mounting hardware for Stainless					
ha	hardware		steel holder					
			Wall/pipe mounting hardware for PP or PVDF holder					
Flange		/FSJ2	JIS 10K 25 RF Flange 316 SS (for -SJ) (*1)					
_		/FS2	DIN PN10 DN25 Flange316 SS (for -SA) (*1)					
		/FPJ2	JIS 10K 25 RF Flange PP (for -PJ) (*1)					
		/FP2	DIN PN10 DN25 Flange PP (for -PA) (*1)					
/FFJ		/FFJ2	JIS 10K 25 RF Flange PVDF (for -FJ) (*1)					
/FF2		/FF2	DIN PN10 DN25 Flange PVDF (for -FA) (*1					
O-ring /EP		/EP	Ethylene propylene rubber (*2)					
Polishin	g	/POL	Polished surface (*3)					

<sup>\*1:</sup> All flanges are adjustable. Each material in the above description represents the one of wetted part of the adjustable flange which itself is made of 304 SS.

#### 4. Direct Insertion Adapter

Model	Suffix code	Option code	Description					
ISC40FSJ			Direct insertion adapter					
Process connection	-PCSJ -SCWJ -SCSJ -STWJ -FCSJ		R2 screw-in coupling PP Coupling welded 316 SS R2 screw-in coupling 316 SS IDF 3 inch clamp 316 SS LR2 screw-in coupling PVDF					
Option		/EP	Ethylene propylene rubber (*1)					

<sup>\*1:</sup> For use in highly alkaline solutions, be sure to check the process conditions and contact us.

#### 5. Terminal Box

Model	Suffix code	Option code	Description
BA20			Terminal box
Option		/XT /YT	M4 screw terminals (*1) M3 screw terminals (*2)

Note: Pin terminals is supplied when option code is'nt specified.

BA20 can not be used with ISC40SJ-TT.

\*1: Use to connect with FLXA202/FLXA21.

\*2: Use to connect with FLXA402, ISC450G, ISC202G/TB.

#### 6. Extension Cable

Model	Suffix code		Option code	Description				
WF10J				Extension cable				
Cable end	-F			Pin terminals				
	-X			M4 ring terminals *1				
	-Y			M3 ring terminals *2				
Cable lengt	h	-05		5 m				
		-10		10 m				
		-20		20 m				
-30		-30		30 m				
		-40		40 m				

<sup>\*1:</sup> Used for connection to FLXA202/FLXA21.

Note: The maximum extension cable length is 50 m including sensor cable length. WF10J can not be used with either ISC40SJ-TT or ISC40SJ-TW.

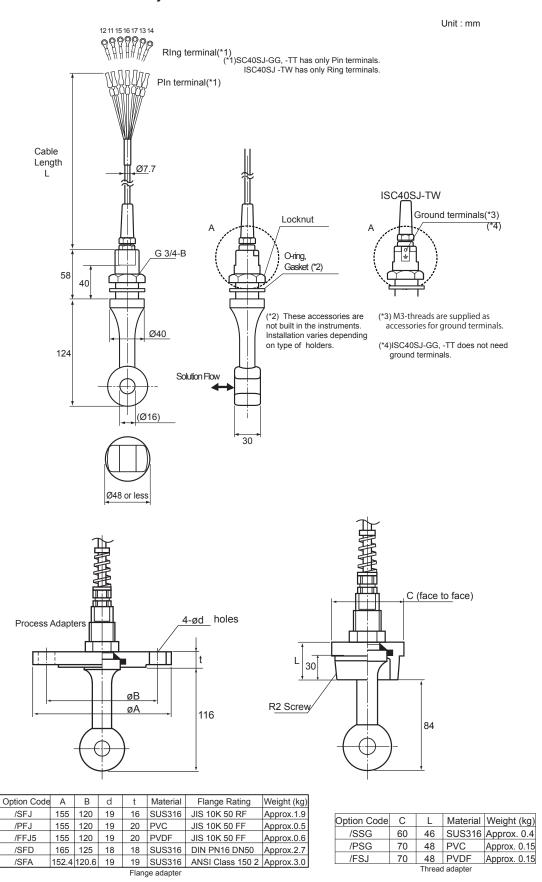
<sup>\*2:</sup> For use in highly alkaline solutions, be sure to check the process conditions and contact us.

<sup>\*3:</sup> Option in case of 316 SS material.

<sup>\*2:</sup> Used for connection to FLXA402, ISC450G, ISC202G/TB.

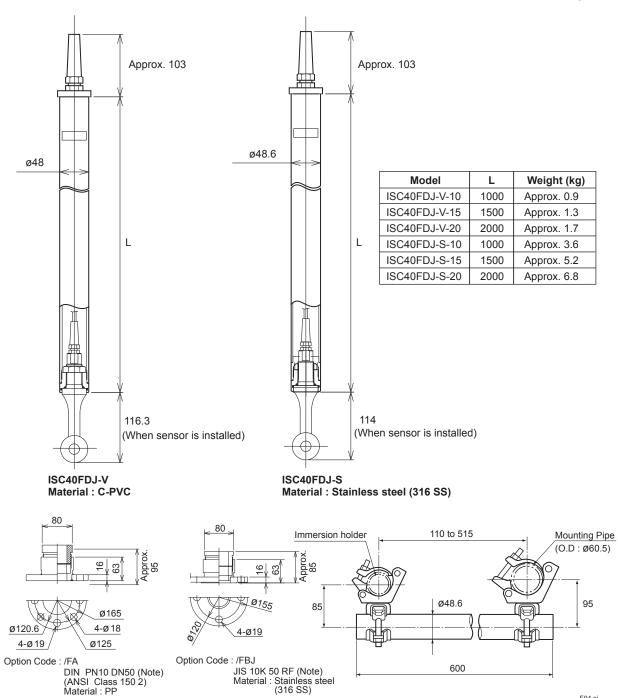
#### **■ DIMENSIONS**

#### 1. ISC40□J Inductive Conductivity Sensor



#### 2. ISC40FDJ Immersion Holder

Unit: mm



Note: Only mating dimensions are according to flange standards. Flange (Option)

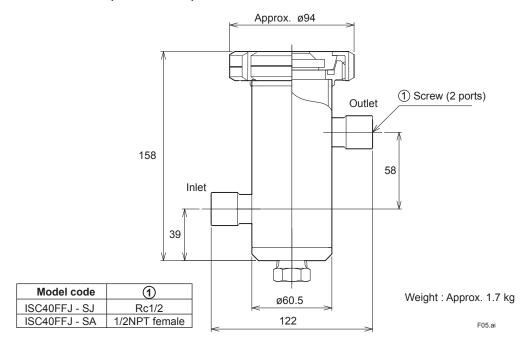
Immersion holder mounting hardware : /MS1 or /MS2 option

F04.ai

#### 3. ISC40FFJ Flow Holder

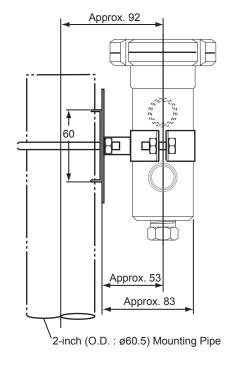
Unit: mm

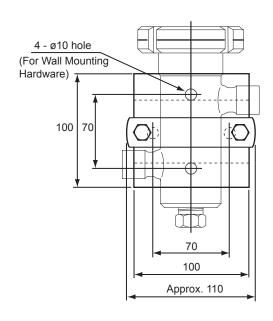
#### Material : Stainless steel (ISC40FFJ-S□)



#### Mounting hardware when /MS option specified

Weight: Approx. 0.5 kg

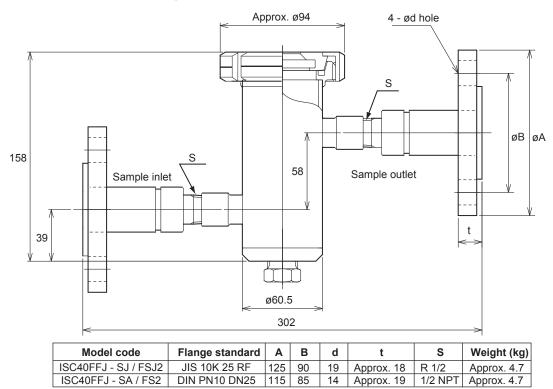




F06.ai

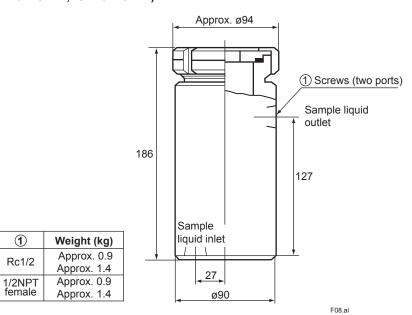
Unit: mm

Material : Stainless steel, with Flange (ISC40FFJ-S□/FS2, /FSJ2)



F07.ai

Material : PP or PVDF (ISC40FFJ-P□, ISC40FFJ-F□)



Model code

ISC40FFJ - PJ

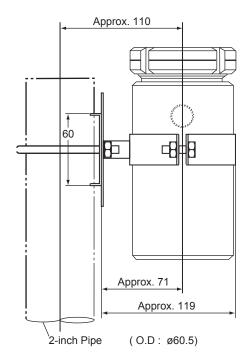
ISC40FFJ - FJ

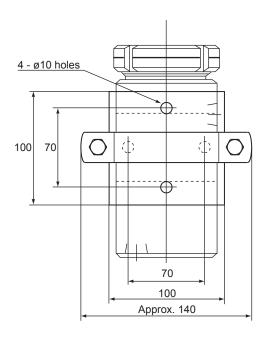
ISC40FFJ - PA

ISC40FFJ - FA

#### Mounting hardware when /MP option specified

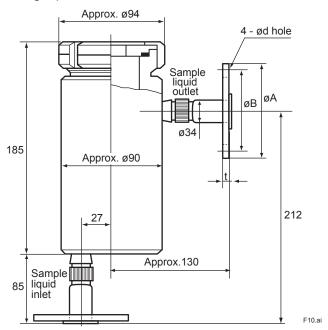
Unit: mm





F09.ai

Material : PP or PVDF, with Flange (ISC40FFJ-P□ /FP2, /FPJ2 or ISC40FFJ-F□/FF2, /FFJ2)

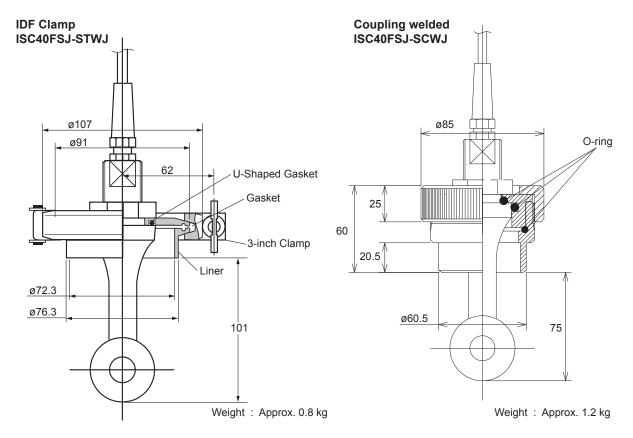


ISC40FFJ - PA, - PJ, -FA, -FJ / FP2, / FPJ2, / FF2, / FFJ2 (with flange)

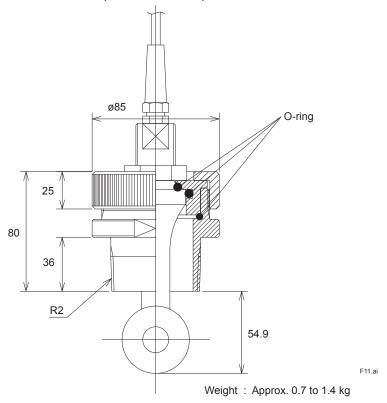
Model code	Flange standard	Α	В	d	t	Weight (kg)
ISC40FFJ - PJ / FPJ2	JIS 10K 25 RF	125	an	10	Approx. 20	Approx. 3.2 kg
ISC40FFJ - FJ / FFJ2	JIS 10K 25 KF	123	30	13	Арргох. 20	Approx. 3.9 kg
ISC40FFJ - PA / FP2	DIN PN10 DN25	115	85	14	Approx. 19	Approx. 3.2 kg
ISC40FFJ - FA / FF2	DIIN PIN 10 DIN25	113	03	'*	дрыох. 19	Approx. 3.9 kg

#### 4. ISC40FSJ Direct Insertion Subassembly

Unit: mm

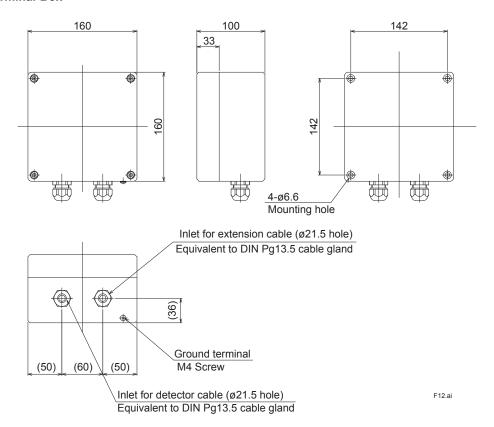


Screw-in socket ISC40FSJ-SCSJ, ISC40FSJ-FCSJ

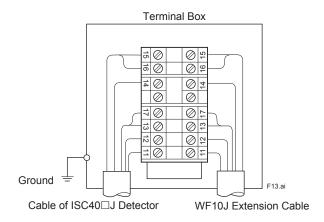


#### 5. BA20 Terminal Box

Unit: mm

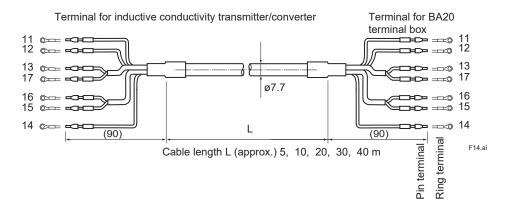


#### Wiring



#### 6. WF10J Extension Cable

Unit: mm



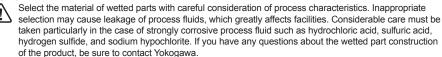
#### ■ TABLE OF CORROSION-RESISTANT MATERIALS

This chemical resistance table is based on reference data provided by manufacturers and shows the chemical resistance of materials to individual chemical. If a sample contains multiple chemicals, the resistance characteristics may differ from the table specifications. Since sample conditions in an actual application are influenced by various factors, the sensor may not be applicable to some applications. The data should be used for reference only.

Chemical Resistance Table for ISC40																						
	Holder Material Sealing Material									ıl	Sensor Bod											
		ı	PVD	F	316 SS				PP	)	PVC			FPM		/	EPDM			PEEK		<u> </u>
Reagent	Temp °C conc.	20	60	100	20	60	100	20	60	100	20	60	100	20	60	100	20	60	100		20	100
Sulfuric acid	10% 50% 98%	000	0	© © ×	000	© © O	× × ×	© © ×	() () () ()	× × ×	000	() () () ()	× × ×	(O) X	© © ×	© © ×	(O) (X) (X)	(i) (ii) (iii) (ii	× × ×		than $\triangle$ or m	×
Fuming sulfuric acid	(98%)	×	×	×	0	0	×	×	×	×	×	X	×	×	×	×	×	X	×		×	×
Hydrochloric acid	15% 38%	0	0	0	×	×	×	0	0	×	0	() ×	×	0	© ×	×	⊚ △	© ×	×		© ©	© ×
Nitric acid	30% 50% 98%	000	© © ×	© O ×	() () () ()	© () ()	× × ×	() () () ()	O ∆ ×	× × ×	() () () ()	× × ×	× × ×	(a)	○ △ ×	∆ × ×	O × ×	× × ×	× × ×	10% 30% 50%	() () () ()	© × ×
Phosphoric acid	10% 50% 98%	000	0	0	000	0	× × ×	000	000	× × ×	000	⊚ × ×	× × ×	000	0	× × ×	0 0	0	0		0	0
Hydrofluoric acid	40% 50%	0	0	0	×	×	×	0	0	×	00	×	×	0	0	0	0	$_{\triangle}^{\triangle}$	×		×	×
Acetic acid	20% 80%	0	© △	O X	00	$\stackrel{\times}{\triangle}$	×	00	O X	×	00	$\overset{\triangle}{\vartriangle}$	×	00	$\stackrel{\triangle}{\times}$	×	© ×	O ×	×	10%	0	0
Glacial acetic acid	96%	0	0	Δ	×	×	×	0	×	×	×	×	×	0	×	×	×	×	×		0	0
Formic acid	90%	0	0	0	×	×	×	0	×	×	0	×	×	×	×	×	0	0	0		0	0
Citric acid	10%	0	0	0	0	0	×	0	0	×	0	0	×	0	0	0	0	0	0		0	0
Calcium hydroxide	Saturated	0	0	0	×	×	×	0	0	0	0	0	×	0	0	0	0	0	×		0	×
Potassium hydroxide	25%	0	0	×	0	0	0	0	0	×	0	0	×	×	×	×	0	0	×	10% 70%	0	×
Sodium hydroxide	50%	0	×	×	0	0	0	0	0	×	0	0	×	×	×	×	0	0	×		0	0
Ammonia water	10%	0	0	0	0	×	×	0	0	×	0	0	×	0	×	×	0	0	0		0	0
Ammonium chloride	Saturated	0	0	0	0	×	×	0	0	×	0	0	×	0	0	0	0	0	0	10%	0	0
Zinc chloride	Saturated	0	0	×	0	0	×	0	0	×	0	0	×	0	0	×	0	0	×		0	0
Iron (II) chloride	20%	0	0	0	×	×	×	0	0	×	0	0	×	0	0	0	0	0	0		Δ	Δ
Sodium carbonate	Saturated	0	0	0	0	0	×	0	0	×	0	0	×	0	0	0	0	0	×		0	0
Potassium chloride	30%	0	0	0	0	0	×	0	0	×	0	0	×	0	0	0	0	0	×		0	0
Sodium sulfate	Saturated	0	0	0	0	0	×	0	0	×	0	0	×	0	0	0	0	0	×		0	0
Calcium chloride	Saturated	0	0	0	×	×	×	0	0	×	0	0	×	0	0	0	0	0	×		0	0
Sodium chloride	Saturated	0	0	0	×	×	×	0	0	×	0	0	×	0	0	×	0	0	×		0	0
Sodium nitrate	Saturated	0	0	0	0	0	0	0	0	×	0	0	×	0	0	0	0	0	×		0	0
Aluminum chloride	Saturated	0	0	×	×	×	×	0	0	×	0	0	×	0	0	0	0	0	0		0	0
Hydrogen peroxide	30%	0	0	0	×	×	×	0	0	×	0	Δ	×	0	0	×	0	×	×		0	0
Sodium hypochlorite (*1)	13%	0	0	×	Δ	×	×	0	X	×	0	0	×	0	×	×	×	×	×		0	0
Potassium dichromate	Saturated	0	0	0	0	0	0	0	0	×	0	Δ	×	0	0	0	0	0	×		×	×
Ethanol	100%	0	0	×	0	0	×	0	0	×	0	0	×	0	0	×	0	0	×		0	0
Cyclohexane	100%	0	0	×	×	×	×	Δ	X	×	×	×	×	0	×	×	×	×	×		0	×
Toluene	100%	0	0	×	×	X	×	0	×	×	×	×	×	0	×	×	×	×	×		0	×
Water	100%	0	0	0	0	0	0	0	0	×	0	0	×	0	0	×	0	×	0		0	0
Very suitable						4 11		la La la	:41		4 .			41-1-		! . 4 .	ماخان د		1-11	solution		

Very suitable Suitable

CAUTION



Slightly unsuitable

Unusable

<sup>\*1:</sup> Unusable with any material when this coexists with an acidic solution or oxides.

### **Inductive Conductivity Sensors and Holders System Inquiry Specifications**

Make inquiries by filling in related boxes with checks  $(\checkmark)$  and writing in the underlined parts.

1.	Person in charge:	idication			(Phone No)
2.	(2) Liquid pressure:(3) Flow rate:	uid:	tototoNo □ Yes	, normal , normal	[kPa {kgf/cm <sup>2</sup> G}] [L/min] [m/s]
3.	Installing Location (1) Ambient temperature: (2) Installing location:		☐ Indoors		
4.	Specification Requirements  (1) Measuring range:   (2) System configuration selection (3) Sensor mounting: (4) Sensor cable length: (5) Extension cable length: (6) Others:	n: ☐ Sens ☐ Imm ☐ 5 m ☐ 5 m	lersion □ Flov □ 10 m □ 15 i □ 10 m □ 20 i	w-through □ Dired n □ 20 m n □ 30 m □ 40 m	ct insertion