Gas Detector with Signal Converter SD-3EC(oxygen) Series SPECIFICATION

Model		SD-3EC	SD-3DEC		
Detection principle		Electrochemical type	00 0020		
Detection gas*1		0xvgen			
Display		7-segment LED (5 digits), 3-color lamp (red,	green vellow)		
Detection range*1		Depends on sensor specifications	groom, jerrom,		
Alarm set points*1		Depends on sensor specifications			
Sampling method		Diffusion type	Suction type (pour into by external unit)		
Setting flow ra			0.4 - 1.5 L/min		
Power supply in		Power lamp lit (green)			
	Alarm type	Two-step alarm (L-LL, L-H, or H-HH)			
Gas	Indication	Alarm lamp lit (red)			
alarm	Reset type*1	Auto reset or self-latching			
	Self-diagnosis	System abnormality (E-9), sensor abnormality (E-1)			
	Indication	Fault lamp lit (yellow), error code display			
Fault alarm		System abnormality: Self-latching			
	Reset type		Sensor abnormality: Auto reset (self-latching if sensor is disconnected)		
	Self-diagnosis		nosis, communication diagnosis, sensor warning		
Warnings	Display	Blinking display alternating between gas cond			
	Operation .	Same as normal operation			
Functions	1 -	Alarm delay, suppression, HART communication	(HART7)		
External outpu	t*1	Gas concentration signal (4-20 mA DC with HAF			
	Transmission	3-wire analog transmission (common power supp			
	Method	2-wire analog transmission (current source)			
		4-20 mA DC (non-insulated linear output)			
Gas	Transmission	Maximum load resistance 600 Ω (with derating	denending on nower supply voltage)		
concentration	Specifications	Resolution: max. 250 divisions (depending on			
signal	Transmission	Shielded cable 1.25 sq (1.308 mm²/AWG16) or			
o i gila i	cable*2	2. 0 sq (2. 08 mm²/AWG14) (same as power supply cable)			
	Transmission	For 1.25 sq (1.308 mm ² /AWG16): Not exceeding			
	Distance*6	For 2.0 sq (2.08 mm²/AWG14): Not exceeding 2 km (with derating depending on supply voltage)			
	DIStance				
Alarm contact	(Ontional)*	SPDT (× 3): 2 alarms, 1 fault output, non-exciting at normal(exciting at alarm) or exciting at normal(non-exciting at alarm), 250 V AC, 2 A: 30 V DC, 1 A(resistance load), Minimum load			
ATATIII COITLAGE	(Optional)	5V DC, 0.1A			
	Input voltage range*3	24 V DC (18 V - 30 V DC)			
	Thipat vortage range				
Power supply	Power supply cable*2*6	Shielded cable 1.25 sq (1.308 mm²/AWG16) or 2.0 sq (2.08 mm²/AWG14) (same as transmission cable)			
	Daway asperment:				
	Power consumption	Max. 2.8 W			
	Material	Stainless steel: SCS14 (equivalent to SUS316) ATEX/IECEx/UKEX: M25 \times 1.5, conversion adapter (optional): NPT3/4, NPT1/2, M20 \times 1.5			
	Cable connectors*1				
	Capte Connectors	Japan Ex: Flame proof packing method $\langle M20 \times 1.5 \rangle$ (Compatible cables ϕ 6.0 \sim 12.0 mm), $\langle M25 \times 1.5 \rangle$ (Compatible cables ϕ 6.0 \sim 12.0 mm),			
	Tube connecting port	1.5>(Compatible cables ϕ 12.0~16.0mm)	NPT1/4 (with SUS elbow union for 0.D ϕ 8-1t)		
Housing	Degrees of protection	Equivalent to IP66/67	μ m i i / τ (with 300 cloom differential to ν 0-1t/		
	Installation type*1	Wall mounting (standard)/2B pole mounting (or	ntional)		
		Approx. $171 \text{ (W)} \times 277 \text{ (H)} \times 127 \text{ (D)} \text{ mm}$	Approx. 171 (W) × 289 (H) × 127 (D) mm		
	External dimensions*5	(excluding projections)	(excluding projections)		
	Weight*5	Approx. 6.7 kg	Approx. 7.0 kg		
		ATEX/IECEx/UKEX: -40 °C - +70 °C (no sudden of			
Operating temperature range*4		Japan Ex: $-20 ^{\circ}\text{C} - +70 ^{\circ}\text{C}$ (no sudden changes)			
Operating humidity range*4		0 %RH - 95 %RH (no condensation)			
Operation method		Dedicated magnet control key			
Type of protection		Flameproof construction			
		II 2G Ex db II C T4 Gb, -50°C≦Ta≦+70°C (wher	n lightning arrester is not installed).		
Explosion-	ATEX/UKEX	-40°C≤Ta≤+70°C (when lightning arrester is			
proof	1505	Ex db II C T4 Gb, -50°C≦Ta≦+70°C (when lightning arrester is not installed),			
approvals	IECEx	-40°C≦Ta≦+70°C (when lightning arrester is installed)			
	Japan Ex	Ex db IIC T4 Gb, $-20^{\circ}C \le Ta \le +70^{\circ}C$			
Certification	· ·	CE Marking, UKCA Marking			
	vour request when ordering				

 $[\]ensuremath{\star} 1$ Please specify your request when ordering.

^{*2} To ensure explosion protection, use a cable designed for use in temperatures at least 5 °C above the maximum anticipated ambient temperature.

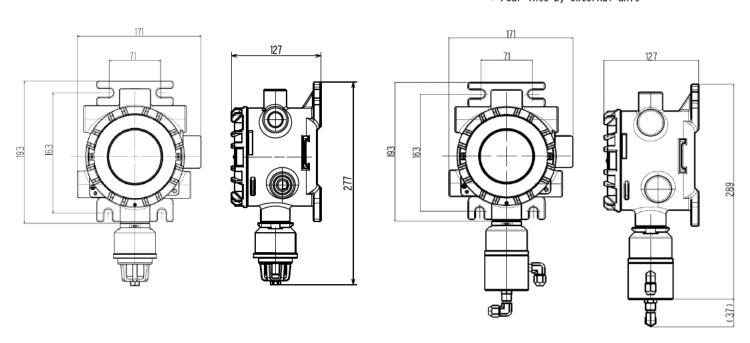
^{*3} Use a power supply capable of minimum temporary output of 2.5 A to ensure that fuses blow normally in the event of a product abnormality.

 $[\]star 4$ In accordance with sensor specifications if restrictions apply due to sensor specifications.

 $[\]star 5$ External dimensions and weight exclude cable gland.

^{*6} Depends on the type of cable.

<Suction type> * Pour into by external unit



Terminal Block Diagram

<Using 3-core cable>

Terminal No.	Power/signal cable connec	tion
1	Power supply (+)	24 V DC
2	Common (Power supply (-), signal (-))	4 20 mA
	(Fower supply (-), Signal (-))	4-20 mA
3	Signal (+)	with HART
4	Not used	

<Using 4-core cable>

Terminal No.	Power/signal cable connection	
1	Power supply (+)	04 1/ 00
2	Power supply (-)	24 V DC
3	Signal (+)	4-20 mA with
4	Signal (-)	HART

<Contact output (Optional)>

Relay1 (ALARM1)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

N.O.: Normal Open N.C.: Normal Close

Relay2 (ALARM2)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

Relay3 (FAULT)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

Gas Detector with Signal Converter SD-3EC(toxic gas) Series SPECIFICATION

W 1 1		00.000	00 0050	
Model		SD-3EC	SD-3DEC	
Detection principle		Electrochemical type		
Detection gas*1		Toxic gas		
Display		7-segment LED (5 digits), 3-color lamp (red,	green, yellow)	
Detection range*1		Depends on sensor specifications		
Alarm set points*1		Depends on sensor specifications		
Sampling method	d	Diffusion type	Suction type (pour into by external unit)	
Setting flow ra	ate	_	0.4 - 1.5 L/min	
Power supply in	ndication	Power lamp lit (green)		
0	Alarm type	Two-step alarm (H-HH)		
Gas	Indication	Alarm lamp lit (red)		
alarm	Reset type*1	Auto reset or self-latching		
	Self-diagnosis	System abnormality (E-9), sensor abnormality (E-1)		
F 11 1	Indication	Fault lamp lit (yellow), error code display		
Fault alarm		System abnormality: Self-latching		
	Reset type	Sensor abnormality: Auto reset (self-latching if sensor is disconnected)		
	Self-diagnosis	Sensor life assessment, clock abnormality diag		
Warnings	Display	Blinking display alternating between gas cond		
	Operation	Same as normal operation		
Functions		Alarm delay, suppression, zero follower, sens	tivity correction. HART communication (HART7)	
External output	<u></u> †*1	Gas concentration signal (4-20 mA DC with HAR		
Excornar outpu	Transmission	3-wire analog transmission (common power supp		
	Method	2-wire analog transmission (current source)	Try (power suppry, signar, common/) or	
	motriod	4-20 mA DC (non-insulated linear output)		
•	Transmission			
Gas	Specifications	Maximum load resistance 600 Ω (with derating		
concentration		Resolution: max. 200 divisions (depending on specifications)		
signal	Transmission	Shielded cable 1.25 sq (1.308 mm ² /AWG16) or		
	cable*2	2.0 sq (2.08 mm²/AWG14) (same as power supply cable)		
	Transmission	For 1.25 sq (1.308 mm²/AWG16): Not exceeding 1.25 km		
	Distance*7	For 2.0 sq (2.08 mm²/AWG14): Not exceeding 2 km (with derating depending on supply voltage)		
		SPDT (× 3): 2 alarms, 1 fault output, non-exciting at normal(exciting at alarm) or exciting		
Alarm contact	(Optional)*1	at normal(non-exciting at alarm), 250 V AC, 2 A; 30 V DC, 1 A(resistance load), Minimum load		
		5V DC, 0.1A		
	Input voltage range*3	24 V DC (18 V - 30 V DC)	24 V DC (18 V - 30 V DC)	
Daman armalı	D 1 1 *2*7	Shielded cable 1.25 sq (1.308 mm ² /AWG16) or		
Power supply	Power supply cable*2*7	2.0 sq (2.08 mm²/AWG14) (same as transmission cable)		
	Power consumption	Max. 2.8 W		
	Material	Stainless steel: SCS14 (equivalent to SUS316)		
		ATEX/IECEX/UKEX: M25 \times 1.5, conversion adapter (optional): NPT3/4, NPT1/2, M20 \times 1.5		
	Cable connectors*1	Japan Ex: Flame proof packing method $\langle M20 \times 1.5 \rangle$ (Compatible cables ϕ 6.0 \sim 12.0mm), $\langle M25 \times 1.5 \rangle$		
	Cap to Continuo con C	1. 5> (Compatible cables ϕ 12. 0~16. 0mm)	or (compactate dasted \$ 0.0 12.0mm), \landscape	
	Tube connecting port	—	NPT1/4 (with SUS elbow union for 0.D ϕ 8-1t)	
Housing	Degrees of protection	Equivalent to IP66/67	111 117 1 (111 coo organ arrior to o. b \$ 0 1c)	
	Installation type*1	Wall mounting (standard)/2B pole mounting (op	tional)	
		Approx. 171 (W) \times 277 (H) \times 127 (D) mm	Approx. 171 (W) × 289 (H) × 127 (D) mm	
	External dimensions*5	(excluding projections)	(excluding projections)	
	Weight* ⁵	Approx. 6.7 kg	Approx. 7.0 kg	
		ATEX/IECEX/UKEX: -40 °C - +70 °C (no sudden of		
Operating temperature	erature range*4	Japan Ex : -20 °C - +70 °C (no sudden changes)		
Operating humidity range*4		0 %RH - 95 %RH (no condensation)		
Operation method		Dedicated magnet control key		
Type of protection		Flameproof construction		
Type of proced		II 2G Ex db II C T4 Gb, -50°C≤Ta≤+70°C (wher	lightning arrester is not installed)	
Explosion-	ATEX/UKEX			
proof		-40°C≦Ta≦+70°C (when lightning arrester is installed) Ex db II C T4 Gb, -50°C≦Ta≦+70°C (when lightning arrester is not installed),		
•	IECEx			
approvals	lanan Ev	-40°C≦Ta≦+70°C (when lightning arrester is installed)		
Functional act	Japan Ex	Ex db IIC T4 Gb, $-20^{\circ}C \le Ta \le +70^{\circ}C$	th radundanay	
	ety(IEC61508:2010)*6	SIL2 capable (HFT=0), SIL3 capable (HFT=1) wi	LIT I EQUITORIES	
Certification 1 Please specify your request when ordering.		CE Marking, UKCA Marking		

^{*1} Please specify your request when ordering.

^{*2} To ensure explosion protection, use a cable designed for use in temperatures at least 5 °C above the maximum anticipated ambient temperature.

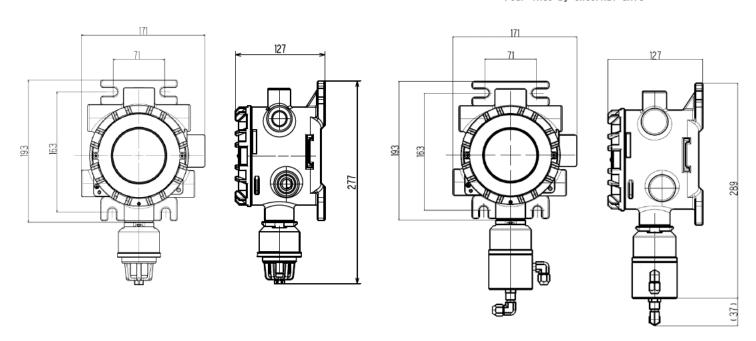
^{*3} Use a power supply capable of minimum temporary output of 2.5 A to ensure that fuses blow normally in the event of a product abnormality.

 $[\]star 4$ In accordance with sensor specifications if restrictions apply due to sensor specifications.

^{*5} External dimensions and weight exclude cable gland.

 $^{*6 \ {\}tt External \ units \ used \ in \ combination \ with \ SD-3DEC \ should \ be \ selected \ from \ SIL \ certified \ products.}$

^{*7} Depends on the type of cable.



Terminal Block Diagram

<Using 3-core cable>

Terminal No.	Power/signal cable connec	tion
1	Power supply (+)	24 V DC
2	Common (Power supply (-), signal (-))	4-20 mA
3	Signal (+)	with HART
4	Not used	

<Using 4-core cable>

Terminal No.	Power/signal cable c	onnection
1	Power supply (+)	04 1/ 00
2	Power supply (-)	24 V DC
3	Signal (+)	4-20 mA with
4	Signal (-)	HART

<Contact output (Optional)>

Relay1 (ALARM1)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

N.O.: Normal Open N.C.: Normal Close

Relay2 (ALARM2)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

Relay3 (FAULT)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

Gas Detector with Signal Converter SD-3ECS Series SPECIFICATION

Madal		SD-3ECS	SD-3DECS	
Model			30-30003	
Detection principle		Electrochemical type		
Detection gas*1		Hydrogen sulfide		
Display		7-segment LED (5 digits), 3-color lamp (red,	green, yellow)	
Detection range*1		Depends on sensor specifications		
Alarm set points*1		Depends on sensor specifications		
Sampling method		Diffusion type	Suction type (pour into by external unit)	
Setting flow ra	ate	1	0.4 - 1.5 L/min	
Power supply in	ndication	Power lamp lit (green)		
Coo	Alarm type	Two-step alarm (H-HH)		
Gas	Indication	Alarm lamp lit (red)		
alarm	Reset type*1	Auto reset or self-latching		
	Self-diagnosis	System abnormality (E-9), sensor abnormality	(E-1)	
F1+ -1	Indication	Fault lamp lit (yellow), error code display		
Fault alarm	Б	System abnormality: Self-latching		
	Reset type	Sensor abnormality: Auto reset (self-latching	(if sensor is disconnected)	
	Self-diagnosis	Sensor life assessment, clock abnormality diag		
Warnings	Display	Blinking display alternating between gas cond		
	Operation	Same as normal operation		
Functions	opor action	Alarm delay, suppression, zero follower, sensi	tivity correction HART communication (HART7)	
External output	+ *1	Gas concentration signal (4-20 mA DC with HAR		
Excernal outpu	Transmission			
	Method	3-wire analog transmission (common power supp	nry \power suppry, signal, common/) or	
	Wethou	2-wire analog transmission (current source)		
	Transmission	4-20 mA DC (non-insulated linear output)		
Gas	Specifications	Maximum load resistance 600 Ω (with derating		
concentration		Resolution: max. 200 divisions (depending on	specifications)	
signal	Transmission	Shielded cable 1.25 sq (1.308 mm ² /AWG16) or		
	cable*2	2.0 sq (2.08 mm ² /AWG14) (same as power supply cable)		
	Transmission	For 1.25 sq (1.308 mm ² /AWG16): Not exceeding	1.25 km	
	Distance*7	For 2.0 sq (2.08 mm²/AWG14): Not exceeding 2 km (with derating depending on supply voltage)		
	I	SPDT (× 3): 2 alarms, 1 fault output, non-exciting at normal (exciting at alarm) or exciting		
Alarm contact(Ontional)*1	at normal (non-exciting at alarm), 250 V AC, 2 A; 30 V DC, 1 A(resistance load), Minimum load		
711411111 00110400(,	5V DC, 0.1A		
	Input voltage range*3	24 V DC (18 V - 30 V DC)		
	Impac vorcago rango	Shielded cable 1.25 sq (1.308 mm ² /AWG16) or		
Power supply	Power supply cable*2*7			
	D	2.0 sq (2.08 mm²/AWG14) (same as transmission cable)		
	Power consumption	Max. 2.8 W		
	Material	Stainless steel: SCS14 (equivalent to SUS316)		
		ATEX/IECEx/UKEX: M25 × 1.5, conversion adapter (optional): NPT3/4, NPT1/2, M20 × 1.5		
	Cable connectors*1	Japan Ex: Flame proof packing method $(M20 \times 1.5)$ (Compatible cables ϕ 6.0 \sim 12.0mm), $(M25)$		
		1.5>(Compatible cables ϕ 12.0~16.0mm)	NOTA /A / LIL OUG III	
Housing	Tube connecting port		NPT1/4 (with SUS elbow union for 0.D ϕ 8-1t)	
	Degrees of protection	Equivalent to IP66/67		
	Installation type*1	Wall mounting (standard)/2B pole mounting (op		
	External dimensions*5	Approx. 171 (W) \times 277 (H) \times 127 (D) mm	Approx. 171 (W) \times 289 (H) \times 127 (D) mm	
		(excluding projections)	(excluding projections)	
	Weight*5	Approx. 6.7 kg	Approx. 7.0 kg	
Operating tom	oratura rango*4	ATEX/IECEx/UKEX: -40 °C - +70 °C (no sudden of		
Operating temperature range*4		Japan Ex : -20 °C - +70 °C (no sudden changes)		
Operating humidity range*4		0 %RH - 95 %RH (no condensation)		
Operation method		Dedicated magnet control key		
Type of protection		Flameproof construction		
		II 2G Ex db II C T4 Gb, -50°C≦Ta≦+70°C (wher	lightning arrester is not installed).	
Explosion-	ATEX/UKEX	-40°C≦Ta≦+70°C (when lightning arrester is		
proof		Ex db II C T4 Gb, -50°C≤Ta≤+70°C (when light		
approvals	IECEx	-40°C≤Ta≤+70°C (when lightning arrester is		
app. 01410	Japan Ex	Ex db II C T4 Gb, -20°C≦Ta≦+70°C		
Functional safe	ety(IEC61508:2010)*6			
	6Ly (1L001000.2010)	SIL2 capable (HFT=0), SIL3 capable (HFT=1) with redundancy		
Certification *I Please specify your request when ordering		CE Marking, UKCA Marking		

st1 Please specify your request when ordering.

^{*2} To ensure explosion protection, use a cable designed for use in temperatures at least 5 °C above the maximum anticipated ambient temperature.

^{*3} Use a power supply capable of minimum temporary output of 2.5 A to ensure that fuses blow normally in the event of a product abnormality.

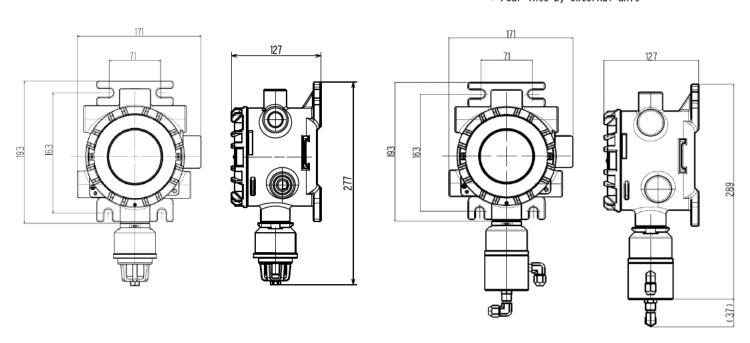
 $[\]star 4$ In accordance with sensor specifications if restrictions apply due to sensor specifications.

^{*5} External dimensions and weight exclude cable gland.

 $^{*6 \ \ \}text{External units used in combination with SD-3DNC should be selected from SIL certified products}.$

^{*7} Depends on the type of cable.

<Suction type> * Pour into by external unit



Terminal Block Diagram

<Using 3-core cable>

Terminal No.	Power/signal cable connec	tion
1	Power supply (+)	24 V DC
2	Common (Power supply (-), signal (-))	4-20 mA
3	Signal (+)	with HART
4	Not used	

<Using 4-core cable>

Terminal No.	Power/signal cable connection	
1	Power supply (+)	04 1/ 00
2	Power supply (-)	24 V DC
3	Signal (+)	4-20 mA with
4	Signal (-)	HART

<Contact output (optional) >

Relay1 (ALARM1)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

N.O.: Normal Open N.C.: Normal Close

Relay2 (ALARM2)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

Relay3 (FAULT)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

<u>Gas Detector with Signal Converter</u> SD-3ECB Series SPECIFICATION

Walata				
Model		SD-3DECB SD-3DECB		
Detection principle		Electrochemical type		
Detection gas*1		Toxic gas		
Display		7-segment LED (5 digits), 3-color lamp (red, green, yellow)		
Detection range*1		Depends on sensor specifications		
Alarm set poin		Depends on sensor specifications		
Sampling metho		Diffusion type	Suction type (pour into by external unit)	
Setting flow r	ate	ı	0.4 - 1.5 L/min	
Power supply i	ndication	Power lamp lit (green)		
Gas	Alarm type	Two-step alarm (H-HH)		
alarm	Indication	Alarm lamp lit (red)		
ararııı	Reset type*1	Auto reset or self-latching		
	Self-diagnosis	System abnormality (E-9), sensor abnormality	(E-1)	
Fault alarm	Indication	Fault lamp lit (yellow), error code display		
Tautt ataim	Reset type	System abnormality: Self-latching		
	neset type	Sensor abnormality: Auto reset (self-latching	; if sensor is disconnected)	
	Self-diagnosis	Sensor life assessment, clock abnormality diag	nosis, communication diagnosis, sensor warning	
Warnings	Display	Blinking display alternating between gas cond	entration and error code	
	Operation	Same as normal operation		
Functions		Alarm delay, suppression, zero follower, sens	itivity correction, HART communication	
External outpu	t*1	Gas concentration signal (4-20 mA DC with HAR	T output), contact output (optional)	
	Transmission	3-wire analog transmission (common power supp	oly <power common="" signal,="" supply,="">) or</power>	
	Method	2-wire analog transmission (current source)		
		4-20 mA DC (non-insulated linear output)		
Gas	Transmission	Maximum load resistance 600 Ω (with derating	depending on nower supply voltage)	
concentration	Specifications			
signal	Transmission	Resolution: max. 200 divisions (depending on specifications) Shielded cable 1.25 sq (1.308 mm²/AWG16) or		
Signai	cable*2			
		2.0 sq (2.08 mm²/AWG14) (same as power supply cable)		
	Transmission	For 1. 25 sq (1. 308 mm ² /AWG16): Not exceeding 1. 25 km		
	Distance*7	For 2.0 sq (2.08 mm²/AWG14): Not exceeding 2 km (with derating depending on supply voltage)		
	0	SPDT (× 3): 2 alarms, 1 fault output, non-exciting at normal (exciting at alarm) or exciting		
Alarm contact(Optional)*	at normal(non-exciting at alarm), 250 V AC, 2 A; 30 V DC, 1 A(resistance load), Minimum load		
		5V DC, 0.1A		
	Input voltage range*3	24 V DC (18 V - 30 V DC)		
Power supply	Power supply cable*2*7	Shielded cable 1.25 sq (1.308 mm²/AWG16) or		
		2.0 sq (2.08 mm ² /AWG14) (same as transmission cable)		
	Power consumption	Max. 3.1 W		
	Material	Stainless steel: SCS14 (equivalent to SUS316)		
		ATEX/IECEx/UKEX: M25 \times 1.5, conversion adapter (optional): NPT3/4, NPT1/2, M20 \times 1.5		
	Cable connectors*1	Japan Ex: Flame proof packing method \leq M20 \times 1.	5>(Compatible cables ϕ 6.0~12.0mm), <m25×< td=""></m25×<>	
		1.5>(Compatible cables ϕ 12.0~16.0mm)		
Housing	Tube connecting port		NPT1/4 (with SUS elbow union for $0.D\phi$ 8-1t)	
Houstilg	Degrees of protection	Equivalent to IP66/67		
	Installation type*1	Wall mounting (standard)/2B pole mounting (op		
	External dimensions*5	Approx. 171(W) \times 322(H) \times 127(D) mm	Approx. 171 (W) \times 334 (H) \times 127 (D) mm	
		(excluding projections)	(excluding projections)	
	Weight*5	Approx. 7.3 kg	Approx. 7.6 kg	
Operating temperature range*4		ATEX/IECEx/UKEX: -40 °C - +70 °C (no sudden changes)		
		Japan Ex : −20 °C − +70 °C (no sudden changes)		
Operating humidity range*4		0 %RH - 95 %RH (no condensation)		
Operation method		Dedicated magnet control key		
Type of protection		Flameproof construction + intrinsically safe explosion-proof construction		
Explosion- ATEX/UKEX		II 2G Ex db ia II C T4 Gb, -40°C≦Ta≦+70°C		
proof	IECEx	Ex db ia IIC T4 Gb, -40°C≦Ta≦+70°C		
approvals	Japan Ex	Ex db ia II C T4 Gb, -20°C≦Ta≦+70°C		
Functional safety(IEC61508:2010)*6		SIL2 capable (HFT=0), SIL3 capable (HFT=1) with redundancy		
Certification		CE Marking, UKCA Marking		
HART communica	tion	HART7		
*1 Please specify your request when ordering				

^{*1} Please specify your request when ordering.

^{*2} To ensure explosion protection, use a cable designed for use in temperatures at least $5~^{\circ}$ C above the maximum anticipated ambient temperature.

^{*3} Use a power supply capable of minimum temporary output of 2.5 A to ensure that fuses blow normally in the event of a product abnormality.

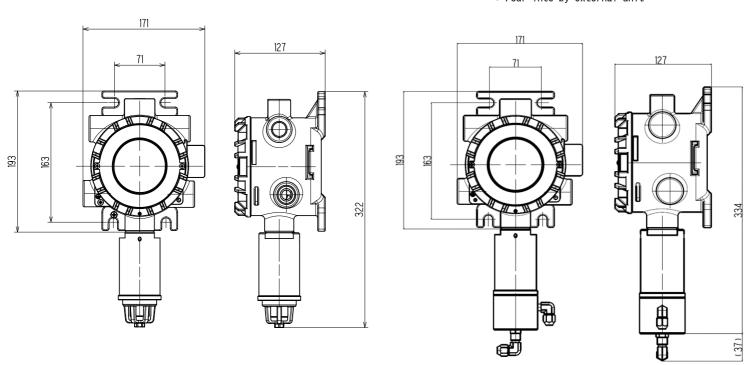
^{*4} In accordance with sensor specifications if restrictions apply due to sensor specifications.

^{*5} External dimensions and weight exclude cable gland.

^{*6} External units used in combination with SD-3DRI should be selected from SIL certified products.

^{*7} Depends on the type of cable.

<Suction type>
* Pour into by external unit



Terminal Block Diagram

<Using 3-core cable>

Terminal No.	Power/signal cable connec	tion
1	Power supply (+)	24 V DC
2	Common (Power supply (-), signal (-))	4-20 mA
3	Signal (+)	with HART
4	Not used	

<Using 4-core cable>

Terminal No.	Power/signal cable c	onnection
1	Power supply (+)	04 1/ 00
2	Power supply (-)	24 V DC
3	Signal (+)	4-20 mA with
4	Signal (-)	HART

<Contact output (optional) >

Relay1 (ALARM1)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

N.O.: Normal Open N.C.: Normal Close

Relay2 (ALARM2)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.

Relay3 (FAULT)

Terminal No.	Cable connection
1	N. O.
2	Common
3	N. C.