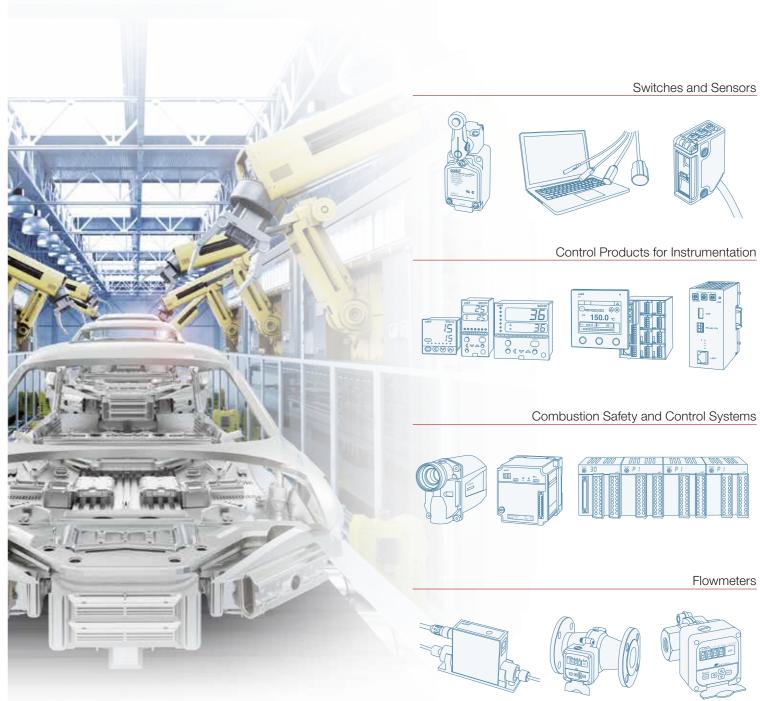
azbil

Products for the Automobile Industry **Selection Guide**



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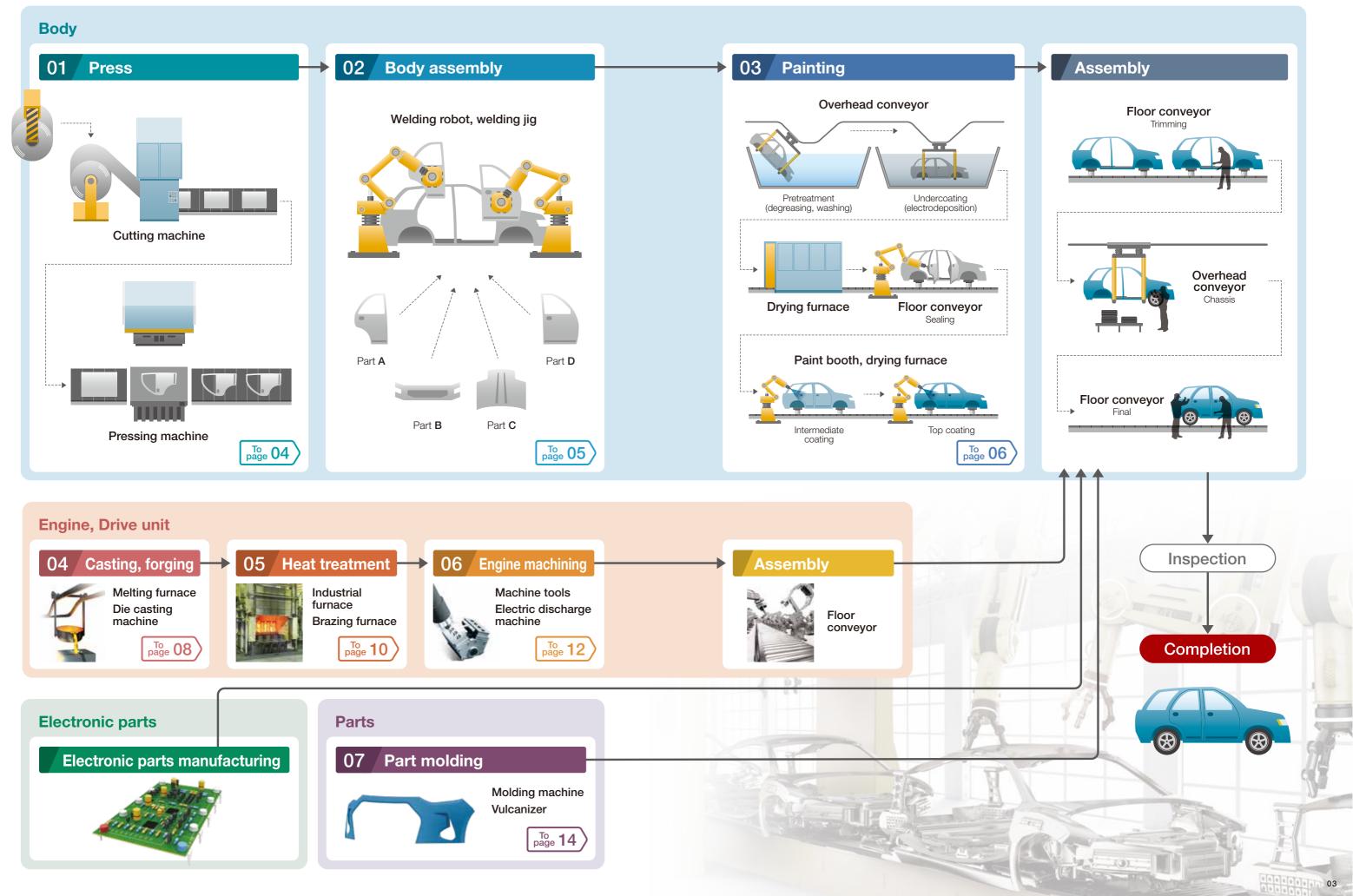


Control Products for Instrumentation

Combustion Safety and Control Systems

Flowmeters

Overview of the Automobile Manufacturing Process



[Body]

01

Press process

Cutting machine Pressing machine [Environment] Vibration

Switches



Limit switches that resist deterioration and breakage by vibration.

[Application] Mold presence & position detection, Vertical strokes detection



Ultra long life / Die-cast housing Model 1LS-J7



Compact Horizontal (rugged) / **Die-cast housing** Model SL1-

Customer's request

Proximity switches with a long-range detection to prevent collision with workpieces.

[Application] Mold presence & position detection, Vertical strokes detection

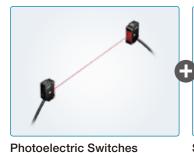


Long-distance proximity Switches Model FL7M-_W/Y

Customer's request

Detect fine changes (punching blade chipping, etc.) at a reasonable cost

[Application] Punching blade chipping detection



Model HP7- T _ _

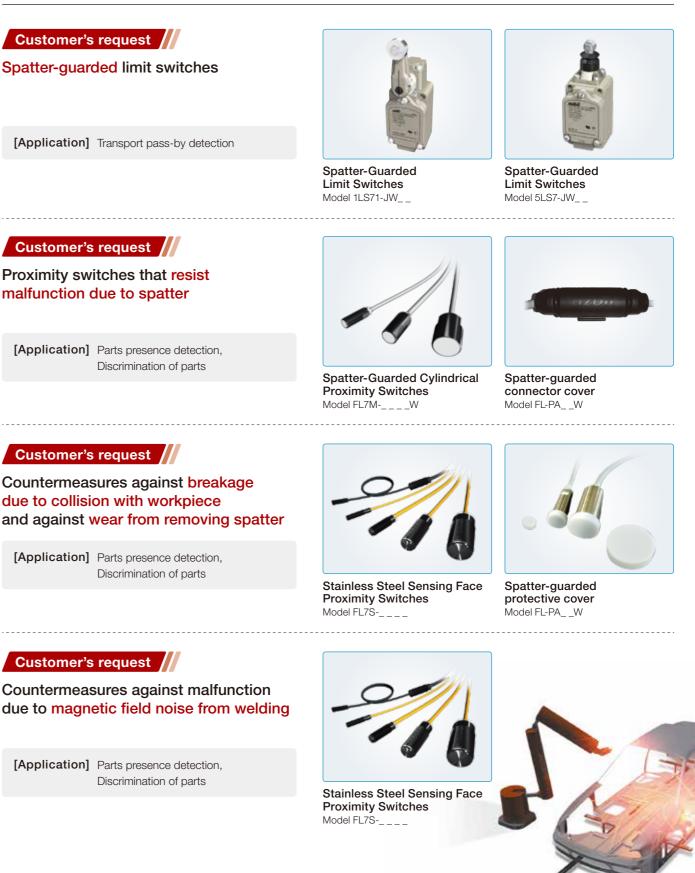


Slit for thru-scan model Model HP-S___



[Body] Body assembly process (welding) 02 Welding robot Welding jig [Environment] Spatter, magnetic field noise from welding current

Switches



Proximity switches that resist malfunction due to spatter

due to collision with workpiece and against wear from removing spatter

due to magnetic field noise from welding



01

Body

03 D

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04

Casting,

forging

05 Heat

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07

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[Body]

Painting process

Conveyor Paint booth Drying furnace [Environment] high heat, explosion protection

Chemical atmospheres,

Switches



Reliable pass-by detection (for conveyor)

[Application] Conveyor, Pass-by detection





High overtravel / High sensitivity Limit Switches Model 1LS-J55_

High overtravel /

Ultra long life Limit Switches Model 1LS-J73_

Customer's request

Products against harsh environment

[Application] Pretreatment (conveyor), Pass-by detection (chemical environment)

[Application] Electrodeposition (conveyor, drying

environment)

furnace), Pass-by detection (high-heat



High overtravel / **Resin filling Limit Switches** Model 1LS-J550_-MD03



High overtravel / **High-resisatnt Limit Switches** Model 1LS-J550H

[Application] Intermediate/top coating process (conveyor, paint booth, drying furnace), Pass-by detection (explosion-proof environment)



2-Point Detection **Explosion-Proof Switches** Model VCX-7_0_



Vertical **Explosion-Proof Switches** Model _LX700_



Temperature & humidity control

Customer's request

Keep constant temperature & humidity to avoid uneven painting



Single Loop Controller Model C__



Insertion Dewpoint Temperature Sensor Mode HTY79

Combustion safety and control system

Customer's request

Safe operation with combustion safety control that meets the latest standards



burner control module Model RX-___



High-Performance Gas Solenoid Valve for Industrial Applications Model GV-A___

IoT devices

Customer's request

Collection & visualization of data from devices without programming



Network Instrumentation Module Smart Device Gateway* Model NX-SVG * A communication gateway that allows the interchange of information between various kinds of control device without program-ming, enabling smarter development work.





Temperature Sensors

Model YY _ _ _



01 Press

02 Body

ass mbly

03

Painting

04

Casting, forging

05

Heat treatment

06

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Control Motor Model ECM3000





Burner interlock module and Advanced Ultraviolet Flame Detector Model AUD300C



Ignition Transformer Model ATN110A-1





GAS Flow Monitors Model CMG_



Gas Pressure Switch Model C6097A





Casting, forging

Melting furnace Die casting machine [Environment] High heat, dust

Switches



Limit switches that resist deterioration & breakage by heat

[Application] Sand mold presence detection

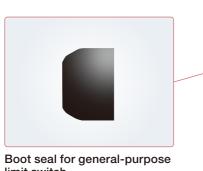


High-resisatnt Limit Switches Model 1LS_-J_H

Customer's request

Countermeasures against switch malfunctions caused by dust

[Application] Sand mold presence detection



limit switch Model PA-J269



Temperature control

Customer's request

Keep melting temperature constant



Single Loop Controllers Model C__



Three-phase Power Controller Model PU2_

Combustion safety and control system

Customer's request

Safe operation with combustion safety control that meets the latest standards



Dynamic Self-Checking Burner controllers Model AUR455



High-Performance Gas Solenoid Valve for Industrial Applications Model GV-A___

IoT devices

Customer's request

Collection & visualization of data from devices without programming



Network Instrumentation Module Smart Device Gateway* Model NX-SVG * A communication gateway that allows the interchange of information between various kinds of control device without program-ming, enabling smarter development work.

Minute liquid measurement

Customer's request

Control of casting conditions









Model YY _ _ _



Control Motor Model ECM3000



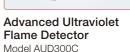


Temperature Sensors

Multi-loop Controller with Multifunction Display (with advance warning of problems) Model C7G









Ignition Transformer Model ATN110A-1





GAS Flow Monitors Model CMG_



Gas Pressure Switch Model C6097A

01

etc.

[Engine, Drive unit] 05

Heat treatment process

Industrial furnace Brazing furnace [Environment] High heat

Switches



Limit switches that resist deterioration & breakage by heat

[Application] Heat treatment furnace, Inlet/outlet pass-by detection



High-resisatnt Limit Switches Model 1LS_-J_H

Customer's request

Object detection from a remote location, without effects by heat or smoke

[Application] Heat treatment furnace, Inlet/outlet pass-by detection



Long-distance **Photoelectric Switches** Model HP7-T4

Temperature control

Customer's request

Keep heat treatment quality at a specific level



Multi-loop Controller with Multifunction Display Model YY ____ Model C7G



Three-phase Power Controller Model PU2_

Combustion safety and control system

Customer's request

Safe operation with combustion safety control that meets the latest standards



Dynamic Self-Checking Burner controllers Model AUR455



High-Performance Gas Solenoid Valve for Industrial Applications Model GV-A___



IoT devices

Customer's request

Collection & visualization of data from devices without programming



Network Instrumentation Module Smart Device Gateway* Model NX-SVG

* A communication gateway that allows the interchange of information between various kinds of control device without program-ming, enabling smarter development work.







Temperature Sensors



01 Press

02 Body

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03

Painting

04

Casting, t

, forging

Heat

06 Engi

hining

07

Parts molding

Control Motor Model ECM3000







Advanced Ultraviolet Flame Detector Model AUD300C



Ignition Transformer Model ATN110A-1





GAS Flow Monitors Model CMG___



Gas Pressure Switch Model C6097A

Pressure Transmitters



Monitor the pressure inside the furnace.



Differential Pressure Transmitters / **Pressure Transmitters** Model GTX__D



[Engine, Drive unit] 06

Engine machining process

Machine tool Electric discharge machine [Environment] Coolant

Switches

Customer's request

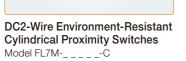
Avoid switch breakage by coolant

[Application] Transport of objects inside machine tools, pass-by detection



Resin filling Limit Switches Model 1LS-J5_0SEC-MD03, 5LS_-JSEC-MD03, 1LS-J7_0SEC-MD03,







Compact Horizontal Limit Switches (Rugged) Model SL1-_C

[Application] Inside machine tools, ATC presence detection, ATC shutter opening/closing detection, Pallet seating detection, Origin/end point detection



Distance-Adjustable Photoelectric Switch Mode H2B-

Customer's request

Avoid proximity switch malfunction due to aluminum shavings

[Application] Engine block machining machine, Object presence detection



DC2-Wire Aluminum-Chip Resistant Cylindrical Proximity Switches Model FL7M-___A



DC2-Wire Environment-Resistant Cylindrical Proximity Switches / Aluminum-Chip Resistant type Model FL7M-___A-C



Customer's request

Reduce time spent adjusting switch installation position, eliminate installation variation between workers.



[Application] Machining center, Main spindle position & state detection, Lathe Chuck cylinders position & state detection

IoT devices

Customer's request

Collection & visualization of data from NC and peripheral coolant equipment

[Application] Transport & pass-by detection





Adjustable Proximity Sensor Model H3C-H_



Network Instrumentation Module Smart Device Gateway* Model NX-SVG

* A communication gateway that allows the interchange of information between various kinds of control device without program-ming, enabling smarter development work.

01 Press 02 Body as mbly 03 Painting 04 Casting, forging 5 Heat treatment 07 Parts molding Specifications, etc.

[Parts] 1)FA

Molding processes for various parts

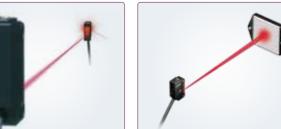
Injection molding machine Vulcanizer [Environment] Sulfur gas atmosphere (vulcanizer)

Switches

Customer's request

Photoelectric switches with easy optical axis adjustment

[Application] Transport line, Large molded parts detection



Photoelectric switch with front light incidence indicator Model HP7-T4

Retroreflective switches feature polarizing filters

Model HP7-P__

Customer's request

Customer's request

Eliminate misdetection for

black tires, black parts

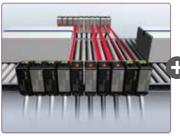
Photoelectric switches without mutual interference

[Application] Transport line, Discrimination of molded parts

[Application] Injection molding machine, Black

molded parts detection

Vulcanizer, Tire detection



Thru-scan model **Different Frequency type** Photoelectric Switches Model HP7- T1_

Mutual interfernce

protecion filter Model HP-U02



Photoelectric Switches Model HP7- G





Customer's request

Keep a constant mold temperature to improve quality



[Application] Injection molding

Network Instrumentation Temperature Sensors Modules Model NX-___

Temperature & pressure control

Customer's request

Keep a constant vulcanization temperature & pressure to improve quality



[Application] Vulcanization process



Multifunction Display Model C7G



Smart Pressure Transmitters Model PTG71_/72_

IoT devices

Customer's request

Collection & visualization of data from devices without programming



Network Instrumentation Module Smart Device Gateway* Model NX-SVG

* A communication gateway that allows the interchange of information between various kinds of control device without program-ming, enabling smarter development work.







Model YY _ _ _



Solid-State Relay Model PGM10



Multi-loop Controller with Temperature Sensors



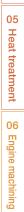


Digital Pressure Detectors Intelligent Pressure Sensor and Switch Model SPS300A





Various control valves



01 Press

02 Body

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03

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04

Casting, forging



Limit Switches

Actuator		Operating characteristics			Model No.									
Туре	Name	Shape	Max. O.F. (operating force)	Max. P.T. (pretravel)	Min. T.T. (total travel)	Basic catalog listing	With LED lamp, 12 to 125 Vac/dc EC	With neon lamp, 100/200 Vac E	Double seal S	Double seal + LED SEC	Heat-resis tant type	DC preleaded connector, 30 cm + LED+double seal+Resin filled	DC preleaded connector, 30 cm + LED+double seal+LED+Re sin filled	
General purpose	Roller lever	Ŭ.	8.9N	High sensitivity 10°	High overtravel 80°	1LS- J550	1LS- J550EC	1LS- J550E	1LS- J550S	1LS- J550SEC	1LS- J550H	1LS- J550S- MD03	1LS- J550SEC- MD03	
Spatter-	Roller lever	Ø	8.9N	High sensitivity 10°	High overtravel 80°	1LS71- JW2	1LS71- JWC	1LS- JW	1LS71- JSW2	1LS71- JSWC	-	-	-	
guarded	Boot seal roller plunger	8	15.7N	1.7mm	7.3mm	-	5LS7- JWC	5LS7- JW	-	5LS7- JSWC	-	-	-	
			13.4N	Standard model 20°	Standard travel 50°	1LS- J700	1LS- J700EC	-	-	1LS- J700SEC	-	1LS- J700S- MD03	1LS- J700SEC- MD03	
Ultra long life Roller leve	Pollor lovor	Roller lever	P IIII	13.41	sensitivity	Standard travel 50°	1LS- J710	1LS- J710EC	_	_	1LS- J710SEC	-	1LS- J710S- MD03	1LS- J710SEC- MD03
	Noliei level		Standard model 20°	High overtravel 80°	1LS- J720	1LS- J720EC	-	-	1LS- J720SEC	-	1LS- J720S- MD03	1LS- J720SEC- MD03		
			8.9N	High sensitivity 10°	High overtravel 80°	1LS- J730	1LS- J730EC	-	_	1LS- J730SEC	-	1LS- J730S- MD03	1LS- J730SEC- MD03	



Limit Switches

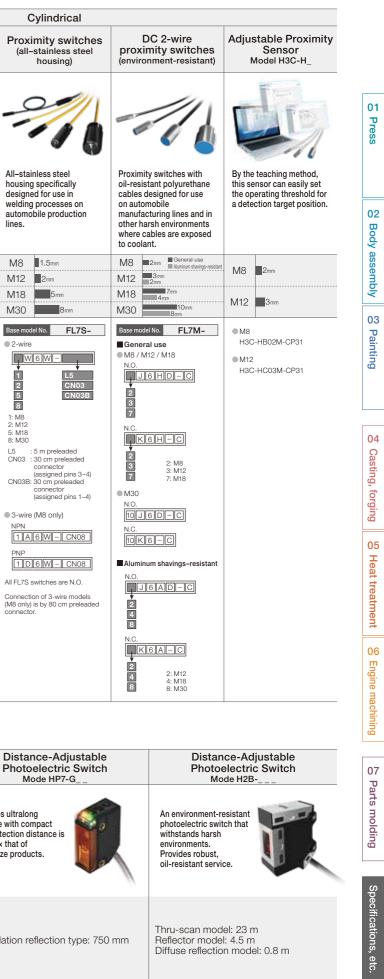
Turne	Actuator	Basic catalog	Low current	
Туре	Name	Shape	listing	load
	Roller plunger	8	SL1-A	SL1-AK
	Boot seal roller plunger	8	SL1-B	SL1-BK
Compact Horizontal	Cross roller plunger	Æ	SL1-D	SL1-DK
Compact Honzontai	Long roller plunger	8	SL1-E	SL1-EK
	Plunger	9	SL1-H	SL1-HK
	Short roller lever	\bigcirc	SL1-P	SL1-PK
	Roller plunger	8	SL1-AC	SL1-AKC
	Boot roller plunger	8	SL1-BC	SL1-BKC
Compact Horizontal	Cross roller plunger	<u>A</u>	SL1-DC	SL1-DKC
(rugged)	Long roller plunger	8	SL1-EC	SL1-EKC
	Plunger	₫	SL1-HC	SL1-HKC
	Short roller lever	\bigcirc	SL1-PC	SL1-PKC

Proximity Switches

Shape		
Туре	DC 2-wire proximity switches (long-distance)	DC 2-wire proximity switches (spatter-guarded)
Model description and appearance	Reduced damage from collision with workpieces.	Optimal for welding processes on automobile production lines. Includes various anti-spatter countermeasures.
Sensor head size and sensing distance	M12 4mm M18 8mm M30 15mm	M12 3mm M18 7mm M30 10mm
Model No. coding examples (for preleaded models excluding FL7S)	Base model No. FL7M-	Base model No. FL7M- With polarity • M8 / M12 / M18 N.O. J.G.H.WR N.C. K.G.H.W.ER

Photoelectric Switches

Name and model	Photoelectric Switches Model HP7	Di Pl
Model descriprion and appearance	Our industry-standard product line now offers new functions. A wide variety of products can meet various detection needs.	Balances ul distance wi size. Detect about 3× th same-size p
Detection method, detection distance	Thru-scan models: 4, 15, 30 m Reflector models: 3, 5 m Diffuse reflection models: 50 cm, 1 m Wide-beam diffuse reflection models: 50, 100 mm Transparent object detection reflector models: 50 cm, 1 m, 2 m	Triangulati



Digital Indicating Controllers

Name and model Single Loop Contro Model C15			Single Loop Controller Model C25	Single Loop Controller Model C26
Appearance	15 15	((; 91) us () () ()	() 87 85 85 85 85 85 80 80 80 80 80 80 80 80 80 80 80 80 80	
Control channels	1		1	1
Sampling cycle	500 ms		300 ms	300 ms
Rated power supply voltage	100 to 240 V AC 50/60 Hz 24 V AC 50/60 Hz, 24 to 48 V DC Note: Varies depending on the model.		100 to 240 V AC 50/60 Hz 24 V AC 50/60 Hz, 24 V DC Note: Varies depending on the model.	100 to 240 V AC 50/60 Hz 24 V AC 50/60 Hz, 24 V DC Note: Varies depending on the model.
External dimensions (mm)	H48 × W48 × D62		H96 × W48 × D70	H96 × W96 × D70
Panel cutout size (mm)	45 ^{+0.5} ₀ × 45 ^{+0.5} ₀		44 ^{+0.5} ₀ × 92 ^{+0.5} ₀	92 ^{+0.5} ₀ × 92 ^{+0.5} ₀

Digital Indicating Controllers

Name and model	Single Loop Controller Model C35	Single Loop Controller Model C36	Multi Loop Controller Model C45A
Appearance	C E ه الله ه ه الله ه الله ه ه الله ه الله م ه الله م م الم م م الله م م الم م م م م م م م م م م م م م م م م م م م	C € 36 36 36 €	C E 291 is E
Control channels	1	1	1 or 2
Sampling cycle	100 ms	100 ms	25 ms, 50 ms, 100 ms, 300 ms
Rated power supply voltage	100 to 240 V AC 50/60 Hz 24 V AC 50/60 Hz, 24 V DC Note: Varies depending on the model.	100 to 240 V AC 50/60 Hz 24 V AC 50/60 Hz, 24 V DC Note: Varies depending on the model.	100 to 240 V AC 50/60 Hz 24 V DC Note: Varies depending on the model.
External dimensions (mm)	H96 × W48 × D70	H96 × W96 × D70	H96 × W48 × D130
Panel cutout size (mm)	44 ^{+0.5} ₀ × 92 ^{+0.5} ₀	$92_0^{+0.5} \times 92_0^{+0.5}$	44 ^{+0.5} ₀ × 92 ^{+0.5} ₀

Digital Indicating Controllers

Name and model	Multi Loop Controller Model C46A	Multi-Loop Controller with Multifunction Display Model C7G			
Appearance	₹ <u>98</u> <u>\$81 %</u>	(و ه ال ه گ	C C C C C C		
Control channels	1 or 2		1, 2, 3, 4		
Sampling cycle	25 ms, 50 ms, 100 ms, 300 ms		10 ms, 50 ms, 100 ms		
Rated power supply voltage	100 to 240 V AC 50/60 Hz 24 V DC Note: Varies depending on the model.		100 to 240 V AC 50/60 Hz 24 V DC Note: Varies depending on the model.		
External dimensions (mm)	H96 × W96 × D130		$H92 \times W92 \times D138.7$ (integrated mounting)		
Panel cutout size (mm)	$92_0^{+0.5} \times 92_0^{+0.5}$		92 ^{+0.5} ₀ × 92 ^{+0.5} ₀		

Multi-Loop Controller with Multifunction Display

Network Instrumentation Modules



Network Instrumentation Modules



Network Instrumentation Modules

Name and model	Communication Box Model NX-CB2/CB1	Communication Adapter Model NX-CL1/CR1	Name and model	Network Instrumentation Module Smart Device Gateway* Model NX-SVG	
Appearance	C C C Nus C C C Nus C C C C C Nus C C C C C C C C C C C C C C C C C C C		Appearance	CE Rus B	
Individual specifications	100 Mbps Ethernet RJ45 (4 ports) With an optical port: 100 Mbps Ethernet RJ45 (3 ports) + LC (1 port)	RJ45 (1 port)	Event bus Mounting method Communication port Rated power supply voltage	– DIN rail Ethernet: 2, RS-485: 2 24 V DC	
Mounting method DIN rail		DIN rail		H100.5 × W45.8 × D84.3	
Rated power supply voltage	24 V DC	-		* A communication gateway that allows the interchange of information between various kind of control device without programming, enabling	
External dimensions (mm)	H100 × W30 × D85	H100 × W20 × D26.4		smarter development work.	

 C (C)
 Product has CE Marking, allowing export to Europe.

 CN:s
 Product meets safety standards in the U.S. and Canada.

 I (C)
 These products are compliant with Korean safety standards.

18

lodule D25	Controller Modu Model NX-D35	ıle	Supervisor Module Model NX-S11/12/21/01		
€ • • • •		€ 2000 2000 3000 3000 3000 3000 3000 300		(و م ال اته ک	
	2, 4		32 (8 units)		
	100 ms		_		
	24 V DC		24 V DC		
04	H100 × W30 × D104		H100 × W30 × D85		

Network Instrumentation Module
Smart Device Gateway*

S-marked product compliant with Korea Occupational Safety and Health Agency (KOSHA) requirements.
 Product meets ship classification society requirements.

01

Press

Temperature Sensors (Thermocouples)

Name and model	Temperature Sensor (General-Purpose Sheathed Thermocouple) Model YYF	Temperature Sensor (General-Purpose Sheathed Thermocouple) Model YYE	Temperature Sensor (General-Purpose Thermocouple) Model YYC
Appearance			
Element type	Single/Double	Single/Double	Single/Double
Туре	К, Е, Ј, Т	К, Е, Ј, Т	K, E, J, T
Measurement range	-40 to +900 °C	-40 to +900 °C	0 to 900 °C
Material	ASTM316L (equivalent to SUS316L)	ASTM316L (equivalent to SUS316L)	SUS316
Protective tube outside diameter(mm)	3.2/4.8/6.4/8.0	1.0/1.6/3.2/4.8/6.4/8.0 (only straight type single element available for 1.0/1.6)	10/12/15/22 (21.7)

Temperature Sensors (Thermocouples)

Temperature Sens	ors (Thermocouples)		Temperature Sensors (Resistance Temperature Detectors)
Name and model	Temperature Sensor (Simple Thermocouple) Model YYU1_/2_/3_	Temperature Sensor (Simple Thermocouple) Model YYU4_	Temperature Sensor (General-Purpose Resistance Temperature Detector) Model YYK
Appearance			
Element type	Single	Single	Single/Double
Туре	K, J	K, J	Pt100 Ω 3-wire type JPt100 Ω 3-wire type
Measurement range	0 to 250 °C	0 to 150 °C, 0 to 250 °C	0 to 250 °C, 0 to 500 °C
Material	SUS316	_	SUS316
Protective tube outside diameter(mm)	3.2	-	3.2/4.8/6.4/8.0

Temperature Sensors

(Resistance Temperature Detectors)			Dewpoint Temperature Sensor		
Name and model	Temperature Sensor (General-Purpose Resistance Temperature Detector) Model YYP	_	Name and model	Insertion Dewpoint Temperature Sensor Mode HTY79	
Appearance			Appearance		
Element type	Single/Double Pt100Ω 3-wire type JPt100Ω 3-wire type -200 to +100 °C, -40 to +250 °C, 0 to 500 °C			Temperature: Pt100: Platinum thin-film resistance	
Туре			Detection element	thermometer sensor (JIS C 1604 Class A) Humidity: Polymer thin film	
Measurement range			Measurement range	Temperature: -20 to +60 °C Dewpoint temperature: -40 to +60 °C DP	
Material	SUS316			Temperature: 100 Ω/0 °C Dewpoint temperature:	
Protective tube outside diameter(mm)	10/12/15/22 (21.7)	Output signal		1–5 V DC (linear for –40 to +60 °C DP) 4–20 mA DC (linear for –40 to +60 °C DP)	

Power Controllers

Name and model	Solid-State Relay Model PGM10N	
Appearance	C 🕰 us	
Туре	No heat sink type	Built-in he
Input signal	3.5 to 30 V DC(Voltage pulse)	4.5 to 30
Mounting DIN rail method Wall mountable		
waii mountable		

Power Controllers

Name a	nd model	Single-phase Power Controller Model PU21_	Three-p
Appearance			8
Control	Phase control	Basic, Constant-voltage, Cons	stant-curren
system	Zero-cross control	•	
Rated power	supply voltage	100 to 440 V AC	200 to 440
Rated	current	10 to	500 A

Control Valves (General-Purpose Valves)

Name and model	Single Seated Control Valve Model ACT	Top (Mode
Appearance		
Nominal size	15 A to 75 A	15 A to 10
Pressure rating	JIS10K	AGVB AGVM
Connection type	Flanged: RF	Flanged: F
Body material	Carbon steel Stainless steel	Carbon st
Trim material	316SS, 316SS with CoCr-A	440CSS 316LSS, 3
Operating temperature limit	0 to 200 °C	-196 to +4
Features/usage	JIS10K line for chemistry, food, fiber, and mechanical equipment markets	General-u and chem
Options	_	Low leaka
	Appearance Nominal size Pressure rating Connection type Body material Trim material Operating temperature limit Features/usage	Name and model Model ACT Appearance Image: Constraint of the state of the s

20



316SS, 316SS with CoCr-A , 316LSS with CoCr-A ⊦400 °C

use process for petrochemica mical plant

kage packing system



	25 A to 300 A	
30K	ANSI/JPI 150, 300, 600* JIS10K, 20K, 30K*, 40K* * Size 2 in. or less	
	Wafer Flanged: RF	
	Carbon steel Stainless steel	
1	SCS24 SCS14, SCS14 with CoCr-A	
	-60 to +350 °C	
al	 High rangeability Powder or high viscosity service 	
	Multi-hole plate for anticavitation and low noise	

Control Valves	(Valves for	Large	Diameter/
Large Flow Pip	es)	•	

O Body assembly
3 Painting
4 Casting

01 Press

Specifications, etc.

Control Products for Instrumentation

Control Motors

Name and model		Control Motor Model ECM3000
Appearance		3
Control operation		Position proportional
Output torque		12.5 N • m or 6 N • m
Datad	24 V AC	•
Rated power supply voltage	100 V AC	•
	200 V AC	•
	85 to 264 V AC	•

Flame Safeguard System

Name and model	Burner interlock module and burner control module Model RX	Name and model	Dynamic Self-Checking Burner controllers Model AUR455	Name and model	Advanced Ultraviolet Flame Detector Model AUD300C
Appearance		Appearance		Appearance	
Power supply voltage	24 V DC	Power supply voltage	100 V AC/200 V AC		
Compatible operation method	Continuous/batch	Compatible operation method	Continuous		

Safety Shutoff Valve



	Comment of A		4
Power supply voltage	100 V AC/200 V AC		
Compatible operation method	Continuous		
Pressure Sw	itch	Ignition Trans	sformers
Name and model	Gas Pressure Switch Model C6097A	Name and model	Ignition Mode
Appearance		Appearance	
Pressure	0.1 to 1 kPa/0.25 to 5 kPa/		

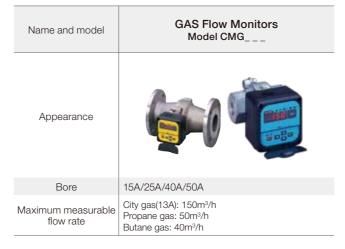
Ignition Transformer

Model ATN110A-1



Various Flow Meters

GAS Flow Monitors



Pressure Detectors

Pressure Transmitters



Smart Pressure Transmitters



Micro Flow Rate Liquid Flow Meter

Name and model	Micro Flow Rate Liquid Flow Meter Model F7M	
Appearance		01 Press
Minimum measurable flow rate	F7M9010: 0.1 mL/min F7M9030: 0.3 mL/min F7M9050: 0.5 mL/min	02
		Body

Pressure Detectors

Name and model	Digital Pressure Detectors Intelligent Pressure Sensor and Switch Model SPS300A	
Appearance	199 <u>00</u>	
Measurement Range	-100 kPa to 3500 kPa (depends on the model)	
Accuracy	1 % (depends on the model)	
Input power supply voltage	See the specification sheet.	

assembly

3 Painting

04

Casting, forging

5 Heat treatment

6 Engine machining

7 Parts molding