

Separate Type ST Series
CNC

ST36

Code	Output
A	Sinusoidal signal
B	Square wave signal + External reset input
C	Sinusoidal signal + Square wave signal
D	1 Vpp differential

Code	Effective range (mm)	Code	Effective range (mm)
0010	10	0900	900
0025	25	1000	1000
0050	50	1100	1100
0075	75	1200	1200
0080	80	1300	1300
0100	100	1400	1400
0150	150	1500	1500
0200	200	1600	1600
0250	250	1700	1700
0300	300	1800	1800
0350	350	2000	2000
0400	400	2200	2200
0450	450	2400	2400
0500	500	2500	2500
0600	600	2600	2600
0700	700	2800	2800
0800	800	3000	3000

Example of standard specification

Effective range 10 mm	ST368	-0010
Effective range 250 mm	ST368	-0250

Code	Effective range 10 to 80 μ m	Code	Effective range 100 to 3000 mm
88 B	Center point (10 to 80)	88 A	50 mm pitch
Z	Special position specification	B	Center point
Z	Special position specification	Z	Special position specification

Note: For reference positions in the effective range of

Resolution / Minimum edge interval

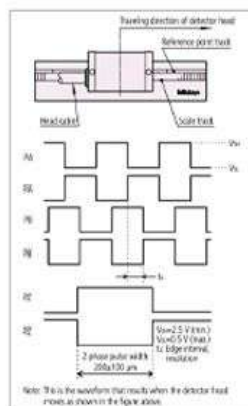
Minimum edge rate/step	125 ns	250 ns	500 ns	1000 ns
0.01 μm	A: 70 mm/s	B: 30 mm/s	C: 15 mm/s	D: 8 mm/s
0.02 μm	E: 150 mm/s	F: 70 mm/s	G: 30 mm/s	H: 15 mm/s
0.05 μm	I: 360 mm/s	K: 180 mm/s	L: 90 mm/s	M: 45 mm/s
0.1 μm	N: 720 mm/s	B: 360 mm/s	O: 180 mm/s	P: 90 mm/s
—	Q: When Signal output is 1 kHz, maximum response speed at Synchronous signal -3 dB attenuation is 1.2 ns			

Code	Details
B0 None	Standard selection specification
2	Special specification

Code	Length
A	1 m (High flex)
B	0.5 m (High flex)
Z	Special length specification (max. 2.5 m)

Code	Details
B 5	Alarm signal
H	High impedance
B 7	When (Signal output) is (A) or (B)

Code	Details
01	Normal: PA goes ahead
10	Reverse: PB goes ahead
11	When [Signal output] is [A] or [B]



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- Figure 1 is a detailed dimensional drawing of the detector. It includes a top view and a side view. The top view shows a rectangular unit with a central hole for adjusting the pin, a hole for the detector, and a hole for the scale reference point signal output. The side view shows the detector's profile with dimensions for its height and the position of the mounting surface. Key dimensions and labels include:
- Overall length L_1** : The total length of the detector unit.
 - Effective range L_2** : The length of the detector's effective range.
 - Overall length L_3** : The total length of the detector unit, including the mounting surface.
 - Mounting surface**: The surface where the detector is mounted.
 - Hole for adjusting the pin**: A hole with a diameter of $\phi 2$ and a depth of 4.
 - Hole for detector**: A hole with a diameter of $\phi 2$ and a depth of 4.
 - Hole for scale reference point signal output**: A hole with a diameter of $\phi 2$ and a depth of 4.
 - Machine gateway**: The connection point for the detector to the machine.

- [illegible]

Order No. *	Model	Effective range L ₁ (mm)	Overall length L ₂ (mm)	Scale fixing pitch L ₃ (mm)	Retaining spring A	Retaining spring B
579-501-001	ST360 -10	10	30	—	—	—
579-502-001	ST360 -25	25	45	—	—	—
579-503-001	ST360 -50	50	70	—	—	—
579-504-001	ST360 -75	75	90	—	—	—
579-505-001	ST360 -80	80	100	—	—	—
579-506-001	ST360 -100	100	140	50	1 pc.	2 pcs.
579-507-001	ST360 -150	150	190	75	1 pc.	2 pcs.
579-508-001	ST360 -200	200	240	100	1 pc.	2 pcs.
579-509-001	ST360 -250	250	290	60	1 pc.	4 pcs.
579-510-001	ST360 -300	300	340	75	1 pc.	4 pcs.
579-511-001	ST360 -350	350	390	85	1 pc.	4 pcs.
579-512-001	ST360 -400	400	440	100	1 pc.	4 pcs.
579-513-001	ST360 -450	450	490	75	1 pc.	6 pcs.
579-514-001	ST360 -500	500	540	80	1 pc.	6 pcs.
579-515-001	ST360 -600	600	640	100	1 pc.	6 pcs.
579-516-001	ST360 -700	700	740	85	1 pc.	8 pcs.
579-517-001	ST360 -800	800	840	100	1 pc.	8 pcs.

* The above Order No. are for recommended items marked with   symbols.
If recommended specifications meet your requirements, use these Order No. to order.

The  and  symbols in the tables above have the following meanings:

 A (2-phase sinusoidal signals)	 1
 B (2-phase square wave signals + reset input)	 2
 C (2-phase sinusoidal signals + 2-phase square wave signals)	 3
 D (1 Vpp differential)	 4

Order No. *	Model	Effective range L ₁ (mm)	Overall length L ₂ (mm)	Scale fixing pitch L ₃ (mm)	Retaining spring A	Retaine spring
579-518-008	ST3600 - 900	900	940	90	1 pc.	10 pcs
579-519-008	ST3600 - 1000	1000	1040	100	1 pc.	10 pcs
579-520-008	ST3600 - 1100	1100	1140	90	1 pc.	12 pcs
579-521-008	ST3600 - 1200	1200	1240	100	1 pc.	12 pcs
579-522-008	ST3600 - 1300	1300	1340	130	1 pc.	10 pcs
579-523-008	ST3600 - 1400	1400	1440	100	1 pc.	14 pcs
579-524-008	ST3600 - 1500	1500	1540	125	1 pc.	12 pcs
579-525-008	ST3600 - 1600	1600	1640	100	1 pc.	16 pcs
579-526-008	ST3600 - 1700	1700	1740	120	1 pc.	14 pcs
579-527-008	ST3600 - 1800	1800	1840	100	1 pc.	18 pcs
579-528-008	ST3600 - 2000	2000	2040	100	1 pc.	20 pcs
579-529-008	ST3600 - 2200	2200	2240	100	1 pc.	22 pcs
579-530-008	ST3600 - 2400	2400	2440	100	1 pc.	24 pcs
579-531-008	ST3600 - 2500	2500	2540	95	1 pc.	26 pcs
579-532-008	ST3600 - 2600	2600	2640	100	1 pc.	26 pcs
579-533-008	ST3600 - 2800	2800	2840	100	1 pc.	28 pcs
579-534-008	ST3600 - 3000	3000	3040	100	1 pc.	30 pcs

Unit name

Separate Type 5T Series