

# KEITOKU specification reference

Base model name: SR87 series

KEITOKU model name

SR87-□□□★○△■□□□

<Measuring length by cm>

<Cable out direction>

R:right, L:left

<Accuracy grade>

A: 5+5L/1000um

S: 3+3L/1000um

L:Measuring length by mm

<Resolution and direction>

For FANUC, MITSUBISHI, MATSUSHITA

	Discription	Resolution	Direction
<input type="checkbox"/>	A	0.01	+
<input type="checkbox"/>	B	0.05	+
<input type="checkbox"/>	C	0.10	+
<input type="checkbox"/>	D	0.50	+
<input type="checkbox"/>	E	1.00	+
<input type="checkbox"/>	F	0.01	-
<input type="checkbox"/>	G	0.05	-
<input type="checkbox"/>	H	0.10	-
<input type="checkbox"/>	J	0.50	-
<input type="checkbox"/>	K	1.00	-

Discription for MITSUBISHI is only A

Discription for MATSUSHITA can't select A and F

For YASKAWA

Discription Division Direction

<input type="checkbox"/>	L	1/8192	+
<input type="checkbox"/>	M	1/1024	+
<input type="checkbox"/>	P	1/8192	-
<input type="checkbox"/>	Q	1/1024	-

<Communication protocol>

	Discription	NC Maker	Wire num.	Baud rate
<input type="checkbox"/>	A	FANUC	4	-
<input type="checkbox"/>	B	MITSUBISHI	2	Low speed
<input type="checkbox"/>	D	MITSUBISHI	4	Low speed
<input type="checkbox"/>	F	YASUKAWA	2	Low speed
<input type="checkbox"/>	H	MATSUSHITA	2	Low speed

<Zero point position>

Zero point position shown by mm from left end of Measuring length  
e.g. 850mm = 850

For 1000mm or longer, 2 left digits shown by alphabet

e.g.1050mm = A50

1,000~1,099mm A	2,100~2,199mm M
1,100~1,199mm B	2,200~2,299mm N
1,200~1,299mm C	2,300~2,399mm P
1,300~1,399mm D	2,400~2,499mm Q
1,400~1,499mm E	2,500~2,599mm R
1,500~1,599mm F	2,600~2,699mm S
1,600~1,699mm G	2,700~2,799mm T
1,700~1,799mm H	2,800~2,899mm U
1,800~1,899mm J	2,900~2,999mm V
1,900~1,999mm K	3,000~3,040mm W
2,000~2,099mm L	

Specific mark : X = center

<Example>

SR87-014RSADX

ML:140mm, Cable out :Right, Accuracy:  
3+3L/1000

Resolution:0.01μm, Direction: +

Protocol : MITSUBISHI : 4wire

# KEITOKU specification list

Base model name: SR87 series

Entry items	KEITOKU range																																																																								
Cable out direction	-Select : Right(standard) or Left																																																																								
Accuracy grade	-Select : 3+3L/1000um or 5+5L/1000um																																																																								
Resolution and direction	<p>-Select one item from following</p> <table border="1"> <thead> <tr> <th colspan="3">For FANUC, MITSUBISHI, MATSUSHITA</th> <th colspan="3">For YASKAWA</th> </tr> <tr> <th>Discription</th> <th>Resolution</th> <th>Direction</th> <th>Discription</th> <th>Division</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> A</td> <td>0.01</td> <td>+</td> <td><input type="checkbox"/> L</td> <td>1/8192</td> <td>+</td> </tr> <tr> <td><input type="checkbox"/> B</td> <td>0.05</td> <td>+</td> <td><input type="checkbox"/> M</td> <td>1/1024</td> <td>+</td> </tr> <tr> <td><input type="checkbox"/> C</td> <td>0.10</td> <td>+</td> <td><input type="checkbox"/> P</td> <td>1/8192</td> <td>-</td> </tr> <tr> <td><input type="checkbox"/> D</td> <td>0.50</td> <td>+</td> <td><input type="checkbox"/> Q</td> <td>1/1024</td> <td>-</td> </tr> <tr> <td><input type="checkbox"/> E</td> <td>1.00</td> <td>+</td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> F</td> <td>0.01</td> <td>-</td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> G</td> <td>0.05</td> <td>-</td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> H</td> <td>0.10</td> <td>-</td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> J</td> <td>0.50</td> <td>-</td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> K</td> <td>1.00</td> <td>-</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Discription for MITSUBISHI is only A Discription for MATSUSHITA can't select A and F</p>	For FANUC, MITSUBISHI, MATSUSHITA			For YASKAWA			Discription	Resolution	Direction	Discription	Division	Direction	<input type="checkbox"/> A	0.01	+	<input type="checkbox"/> L	1/8192	+	<input type="checkbox"/> B	0.05	+	<input type="checkbox"/> M	1/1024	+	<input type="checkbox"/> C	0.10	+	<input type="checkbox"/> P	1/8192	-	<input type="checkbox"/> D	0.50	+	<input type="checkbox"/> Q	1/1024	-	<input type="checkbox"/> E	1.00	+				<input type="checkbox"/> F	0.01	-				<input type="checkbox"/> G	0.05	-				<input type="checkbox"/> H	0.10	-				<input type="checkbox"/> J	0.50	-				<input type="checkbox"/> K	1.00	-			
For FANUC, MITSUBISHI, MATSUSHITA			For YASKAWA																																																																						
Discription	Resolution	Direction	Discription	Division	Direction																																																																				
<input type="checkbox"/> A	0.01	+	<input type="checkbox"/> L	1/8192	+																																																																				
<input type="checkbox"/> B	0.05	+	<input type="checkbox"/> M	1/1024	+																																																																				
<input type="checkbox"/> C	0.10	+	<input type="checkbox"/> P	1/8192	-																																																																				
<input type="checkbox"/> D	0.50	+	<input type="checkbox"/> Q	1/1024	-																																																																				
<input type="checkbox"/> E	1.00	+																																																																							
<input type="checkbox"/> F	0.01	-																																																																							
<input type="checkbox"/> G	0.05	-																																																																							
<input type="checkbox"/> H	0.10	-																																																																							
<input type="checkbox"/> J	0.50	-																																																																							
<input type="checkbox"/> K	1.00	-																																																																							
Communication protocol	<p>-Select one item from following</p> <table border="1"> <thead> <tr> <th>Discription</th> <th>NC Maker</th> <th>Wire num.</th> <th>Baud rate</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> A</td> <td>FANUC</td> <td>4</td> <td>-</td> </tr> <tr> <td><input type="checkbox"/> B</td> <td>MITSUBISHI</td> <td>2</td> <td>Low speed</td> </tr> <tr> <td><input type="checkbox"/> D</td> <td>MITSUBISHI</td> <td>4</td> <td>Low speed</td> </tr> <tr> <td><input type="checkbox"/> F</td> <td>YASUKAWA</td> <td>2</td> <td>Low speed</td> </tr> <tr> <td><input type="checkbox"/> H</td> <td>MATSUSHITA</td> <td>2</td> <td>Low speed</td> </tr> </tbody> </table>	Discription	NC Maker	Wire num.	Baud rate	<input type="checkbox"/> A	FANUC	4	-	<input type="checkbox"/> B	MITSUBISHI	2	Low speed	<input type="checkbox"/> D	MITSUBISHI	4	Low speed	<input type="checkbox"/> F	YASUKAWA	2	Low speed	<input type="checkbox"/> H	MATSUSHITA	2	Low speed																																																
Discription	NC Maker	Wire num.	Baud rate																																																																						
<input type="checkbox"/> A	FANUC	4	-																																																																						
<input type="checkbox"/> B	MITSUBISHI	2	Low speed																																																																						
<input type="checkbox"/> D	MITSUBISHI	4	Low speed																																																																						
<input type="checkbox"/> F	YASUKAWA	2	Low speed																																																																						
<input type="checkbox"/> H	MATSUSHITA	2	Low speed																																																																						
Zero point position	<p>-Specify the position</p> <p>Zero point position shown by mm from left end of Measuring length. Except center of measuring length shown by specific mark "X".</p>																																																																								