VM-5 SERIES MONITOR

MODEL VM-5S DUAL TACHOMETER

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Model Code / Additional Spe	c. Code(No entry if additional spec. code is not specified.)	
VM-5S		
0 DE-ENERGIZED 1 NORMALLY ENERGIZED 1 NORMALLY ENERGIZED <th>ividual output SR1,SR3 OR output SR2,SR4 OR output S2 CH2 : 2 points (SR3,SR4) 7 CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) 8 CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) 8 CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) 8 CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) A CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) A CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S82,SR4 Individual output B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S82</th>	ividual output SR1,SR3 OR output SR2,SR4 OR output S2 CH2 : 2 points (SR3,SR4) 7 CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) 8 CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) 8 CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) 8 CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) A CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) A CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S2 CH2 : 2 points (SR3,SR4) B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S82,SR4 Individual output B CH1 : 2 points (SR1,SR2) CH2 : 2 points (SR3,SR4) S82	
 This monitor is designed for monitoring but not for controlling the rotor speed. Use the speed relay contact only for alarms. Use the recorder output only for data recording. When a zero speed system is designed using this monitor, other enable contact should be customer for the reliable and safe engagement of the turning gear. 	provided by the When recorder output code 2 is selected, specify this option code. *6 The product that the powe supply voltage specification is 0 or 2 does not conform to CE.	
Ordering Information INPUT SPEED/INDICATED SPEED CHANGED RATIO (NON-STANDARD SPECIFICATION) If the indicated rotation speed is different from the input rotation speed, enter into the space below. Input ratio speedrpmrpm In case of a magnification more than 1, the resolution deteriorates in proportion to the magnification factor. SPEED RELAY SET VALUE SR1 : SR2 : SR3 : SR4 : SR4 ≤ SR3 in case of both under speed) Preset to 50% of monitor range unless specified otherwise.	Standard Specifications SPEED RELAY SET POINT 4 points (SR1,SR2,SR3,SR4) SPEED RELAY SET RANGE More than 1rpm : Speed relay can be set in 1 rpm increments until 110% of monitor range Less than 1rpm : Speed relay can be set in 0.1 rpm increment SPEED RELAY SET ACURACY ±1 digit or less(on digital indicator) SPEED RELAY OUTPUT 1 points (SR1,SR2,SR3,SR4) ALARM OUTPUT 1 points (SR1,SR2,SR3,SR4) ALARM OUTPUT 1 points (SR1,SR2,SR3,SR4) SPEED RELAY SR1,SR3 : (yellow LED) INDICATOR SR1,SR3 : (yellow LED) BYPASS INDICATOR SYASS : (red LED) BYPASS INDICATOR BYPASS : (red LED) TRANSDUCER INPUT V, RD,FK, Series, VE Series, MS Series, VC Series	
SPEED RELAY HYSTERESIS Speed relay hysteresis can be specified from 0 to 100rpm. (1rpm step) SR1 :	Number of input points : 2 points INPUT IMPEDANCE Approx.5kΩ INPUT VOLTAGE Min.:2Vpk-pk, Max.:100Vpk-pk MIN. PULSE WIDTH Approx.50gsec MIN. INDICATED FREQUENCY Lower of 1Hz or under speed setting. MAX.INPUT FREQUENCY 10kHz NO. OF INPUT PULSE 1 to 120 pulse TRIGGER MODE AUTO, MANUAL (selectable) In case of auto trigger mode, input pulse duty ratio should be between 10 and 90% and input pulse frequency should be 1Hz and	
DIMENSION OF TARGET (Model VK, RD,FK) CAUTION) To detect a projection(gear), provide surface A of the projection with a concentric curve. Do not make it flat. A= mm C= mm D= mm D= mm D= mm Dimension of target C ≥ 2.5 ≥ 4.5 ≥ 2.5 C ≥ 2.5 ≥ 4.5 ≥ 2.5 C ≥ 2.5 ≥ 3.5 ≥ 1.0 to 1.5	over. it depends on the target. EXTERNAL CONTACT INPUT Contact type : Dry contact (FROM REAR PANEL) Contact for external reset DIGITAL METER ±(0.03% of rdg. +1 digit) at 25°C(77°F) ±(0.03% of rdg. +1 digit) at 0 to 65°C (32 to 149°F) BAR GRAPH METER ±2.5% of F.S. PECORDER OUTPUT ±0.5% of F.S. at 25°C(77°F) CONVERSION ACCURACY ±2.0% of F.S. at 25°C (77°F) KECORDER OUTPUT ±0.5% of F.S. at 25°C (72°F) (FROM REAR PANEL) Voltage or current output proportional to monitor range 1 to 5VDC (output impedance : 250Ω) 4 to 20mADC (max. load resistance : 50Ω) 4 to 20mADC (max. load resistance : 50Ω) 0 to -10VDC°, 0 to 5VDC°, 0 to 5VDC* (output impedance : 100) (*option) Number of output/Pulse MONITOR/PULSE Monitor output/Pulse output ; selectable MONITOR KRONT, REAR Monitor output/Pulse output ; selectable MONITOR VULSE Monitor output : Input signal is output via a buffer amplifier. Signal level : -0 to VCVK, RD) PaNEL) Pulse output : Shaped pulse signal is output via a buffer amplifier.	
OTHERS	Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	

SHINKAWA Sensor Technology, Inc.

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