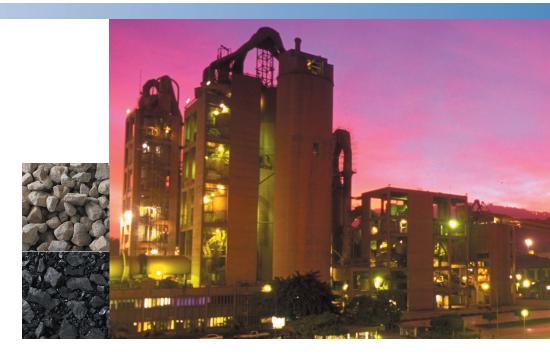
SRO Technology Ramsey Motion Monitor System

Sensing speed conditions on rotating shafts and machinery

SRO Technology Motion Monitor
Systems measure the speed of rotating
machinery and detect under-speed,
over-speed and zero-speed conditions.
They detect any deviance from your
acceptable operating parameters,
allowing you to troubleshoot system
upsets or failures. This leads to reduced
downtime and increased productivity,
ultimately adding to your bottom line.



SRO Technology Motion Monitor Systems offer a choice of versatile and reliable packages for monitoring speed conditions on various types of machinery and systems by sensing the speed variations of rotating parts. The Motion Monitor can detect underspeed, over-speed, and zero-speed conditions as well as transmit a

proportional speed signal. You can choose from mechanically coupled (shaft-driven) or non-contacting proximity type sensors to satisfy your particular application requirements and design preferences.

The control system for these unique systems are housed in separate NEMA 4X enclosures which can be mounted near the sensing components or, for convenience and accessibility, up to 610 m (2,000 ft) from the sensor.





SRO Technology Ramsey Model 60-200 Motion Monitor Control

The RamseyModel 60-200 programmable motion monitor control is a flexible microprocessor-based controller that can be used with any SRO Technology sensor and, in some cases, with compatible pulse output sensors from other sources.

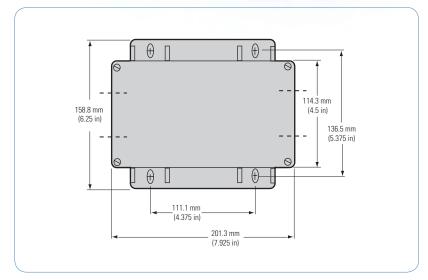
All alarm functions, delays and operating parameters are entered via a simple three-button keyboard. There are no potentiometers to adjust. A four-digit, seven-segment display shows the current speed as a percentage relative to a user-programmed reference speed. It also displays various parameters and setup values when the control is in its setup mode. Finally, the display shows an error code if any problems occur. This helps the operator to troubleshoot system failures or other difficulties.

Detailed programming instructions are contained in the system manual and a quick reference programming guide is displayed on a label inside of the control's enclosure cover. Depending on the model used, one or two DPDT outputs are available to transfer information about the monitored conditions from the monitor to remote alarm displays or control functions. Also available is a 0 to 2 VDC output or an optional 0-20 mA/4-20 mA signal proportional to the rotational speed of the monitored shaft.

The Ramsey Model 60-200 is available in two versions, a single channel or a dual channel. The alarm on a single channel model can be set at 1% increments over a range of 0% to 160% of the reference speed to provide an under-speed or an over-speed alarm. The dual channel model has two independent alarms, each adjustable between 0% to 160%.

Other programmable setup features include: start-up delay, alarm delay, reset mode, start-up delay initiation and alarm clearing.

Ramsey Model 60-200 Motion Monitor Control





SRO Technology Ramsey Model 60-22 Motion Monitor System

This system uses a Ramsey Model 60-200 controller and a Ramsey Model 60-220 non-contacting proximity type sensor used for measuring shaft rotation. It is available with either the single or dual channel controller and in either high speed or low speed. The sensors include an LED that indicates pulse outputs which simplifies system setup and troubleshooting. All sensors include 6 m (20 ft) of lead wire and a mounting bracket.

The Ramsey Model 60-220 sensor may be mounted in Class I or II, Division 2 hazardous areas if the wiring is run in approved conduit. For use in Class I or II, Division 1 areas, an intrinsic safety barrier must be incorporated

into the signal leads. The Ramsey Model 60-200 control must always be located in a non-hazardous area.

Options include: a stainless-steel sensor, intrinsic safety barriers, conduit connectors, several target options with appropriate hardware, and an analog current output to transmit shaft speed.

SRO Technology Ramsey Model 60-24 Motion Monitor System

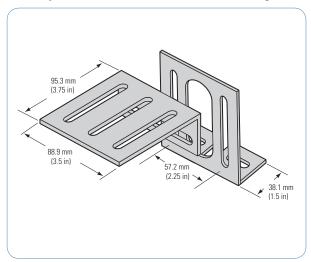
This system uses a Ramsey Model 60-200 controller and a Ramsey Model 60-240 direct coupled, shaft-driven sensor for measuring shaft rotation speed. It is available with either the single or dual channel controller and in

either high speed or low speed. A very low speed version is available capable of very sensitive operation at very low shaft speeds (less than 0.025 RPM). All systems include a conduit type connector and 1.5 m (5 ft) lead wire.

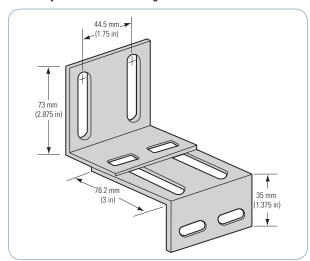
The Ramsey Model 60-240 sensors are approved for Class II combustible dust hazardous areas. If used in a Class I hazardous area, an intrinsic safety barrier must be incorporated into the signal leads. The Ramsey Model 60-200 control must always be located in a non-hazardous area.

Options include two versions of speed sensor mounting kits, intrinsic safety barriers, and an analog current output to transmit shaft speed.

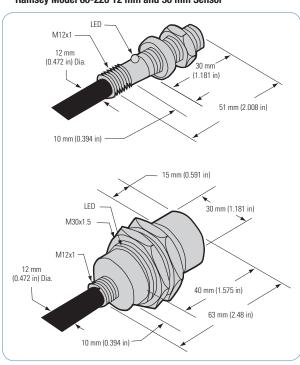
Ramsey Model 60-220 12 mm and 30 mm Sensor Mounting Bracket



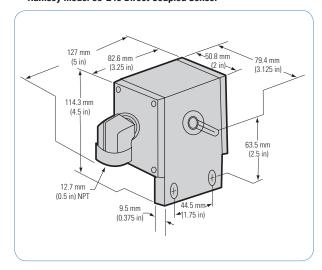
Ramsey Model 60-240 Mounting Bracket



Ramsey Model 60-220 12 mm and 30 mm Sensor



Ramsey Model 60-240 Direct Coupled Sensor



Programmable Features Reterence Speed		SRO Technology Ramsey Model 60-200 Motion Monitor Controllers
Reference Speed Learned when operator presses and holds: Select* ley for five seconds Sister*Lip Debytys) 1-99 seconds, programmable in one-second increments Alarm Debytys 1-99 seconds, programmable in one-second increments Begin Start-Lip Debyty Selectable: Power On or of the Power On and Remote Reby Input Begin Start-Lip Debyty Selectable: Power On or of first Speed Pulse Begin Start-Lip Debyty Selectable: Power On or of first Speed Pulse Begin Start-Lip Debyty Selectable: Power On or of first Speed Pulse Begin Start-Lip Debyty Internal LED displays current speed as a percentage of reference at touch of a key Internal LED displays current speed as a percentage of reference at touch of a key Internal LED displays current speed as a percentage of reference at touch of a key Internal Memory Non-Vokatel memory stores all programming during power loss Fendosure Fendosu	Programmable Features	
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Alarm Delay(s) 1-99 seconds, programmable in one-second increments Alarm Delay(s) 1-99 seconds, programmable in one-second increments Selectable: Power On or both Power On and Remote Relay input Selectable: Power On or First Spoed Pulse Selectable: Solectable: Power On or First Spoed Pulse Selectable: Selectable: Manual Reset (flotched) or Automatic Reset (unlatched) General Features and Specifications Speed Dilapky Internal LED displays current speed as a percentage of reference at touch of a key Internal LED displays error messages to alert user of programming errors or system faults Internal Mannoy Internal LED displays arror messages to alert user of programming errors or system faults Internal Mannoy Internal Mannoy Internal LED displays error messages to alert user of programming errors or system faults Internal Mannoy Internal LED displays error messages to alert user of programming errors or system faults Internal Mannoy Internal LED displays error messages to alert user of programming errors or system faults Internal Mannoy Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or system faults Internal LED displays error messages to alert user of programming errors or s		
Alarm Delay(s) 1-99 seconds, programmable in one-second increments Reset Minde Selectable: Power On in prints Speed Pulse Alarm Clear Selectable: Power On or prints Speed Pulse Alarm Clear Selectable: Novem On or prints Speed Pulse Alarm Clear Selectable: Novem On or prints Speed Pulse Alarm Clear Selectable: Novem On or prints Speed Pulse Alarm Clear Selectable: Normal Reset (latched) or Automatic Reset (unlatched) General Features and Specifications Speed Display Internal LED displays current speed as a percentage of reference at bouch of a key Internal LED displays current speed as a percentage of reference at bouch of a key Internal LED displays current speed as a percentage of reference at bouch of a key Internal LED displays current speed as a percentage of reference at bouch of a key Internal LED displays current speed as a percentage of reference at bouch of a key Internal LED displays current speed as a percentage of reference at bouch of a key Internal LED displays current speed as a percentage power loss Floologure Floorglass (IREM AV), optional steel (NEMA 4) enclosure available Speed Dulput Proportional to retational speed, it to 2 VIDC output (1 VDC equals 100%); or Optional analog current output signal (Selectable 4-20 ab. Acr 9/20 output (1 VDC equals 100/%); or Optional analog current output signal (Selectable 4-20 ab. Acr 9/20 output (1 VDC equals 100/%); or Optional analog current output signal (Selectable 4-20 ab. Acr 9/20 output (1 VDC equals 100/%); or Optional analog current output signal (Selectable 4-20 ab. Acr 9/20 output (1 VDC equals 100/%); or Optional analog current output signal (Selectable 4-20 ab. Acr 9/20 output (1 VDC equals 100/%); or Optional analog current output signal (Selectable 4-20 ab. Acr 9/20 output (1 VDC equals 100/%); or Optional analog current output signal (Selectable 4-20 ab. Acr 9/20 output (1 VDC equals 100/%); or Optional analog current output signal (Selectable 4-20 ab. Acr 9/20 output (1 VDC equals 100/%); or Optional Internal VDC equals 100/%; or Opti		71 0
Reset Mode Selectable: Power On or both Power On and Remote Relay Input Selectable: Power On or First Speed Pulse Alarm Cloer Selectable: Novar On First Speed Pulse Alarm Cloer Selectable: Namual Reset (latched) or Automatic Reset (unlatched) General Features and Specifications Speed Display Internal LED displays current speed as a percentage of reference at bouch of a key Internal Memory Internal LED displays error messages to alert user of programming errors or system faults Internal Memory Non-Voidalle memory stores all programming during power loss Enclosure Fiberglass (MEM A4), optional seled (MEM 49 enhouses evaliable Speed Output Speed Output Proportional to rotational speed, 0 to 2 VDC output (1 VDC equals 100%), or Optional analog current output signal (Selectable 4-20 m/s not 2-20 m/s) available Alarm Contacts DPDT Belay (220 VAG, S. A Hon-Inductive 2A Inductive (Selectable NC/NO) Operating Range Maximum input speed pulse rate = 1000 Hz; Minimum input speed pulse rate = 0.24 Hz (5 seconds in between pulses (Hz = IPNA V Ablass per Revolution 16) Morbit any base rates and two into the Alarm Sel-point can be adjusted Power Consumption 10 Watts nominal (15 Watts maximum) Max Wring Distance 610 m (2000 Hz) between controller and sensor when running at 300 Hz or less Model Specific Specifications Imput Power Voltage 60-200-SC; Selectable 115/230 VAC (50/80 Hz) ±10% 60-200-SC; One adjustable alarm with (1) DPDT relay per alarm 60-200-SC; One adjustable alarm with (1) DPDT relay per alarm 5ensor Input 60-200-SC; One adjustable alarm with (1) DPDT relay per alarm 5ensor Input 60-200-SC; One adjustable alarm with (1) DPDT relay per alarm 60-200-SC; One adjustable alarm with (1) DPDT relay per alarm 5ensor Input 60-200-SC; One adjustable alarm with (1) DPDT relay per alarm 5ensor Input Operating Temperature -25°C to +70°C (-18°F to +158°F), Iower temp rating available upon request 5ensor Housing Chrome plated brass with plastic face, stainless steel housings are availa		1 71 0
Alarm Clorer Selectable: Manual Reset (latched) or Automatic Reset (unlatched) General Features and Specifications Internal LED displays current speed as a percentage of reference at touch of a key Error Display Internal LED displays current speed as a percentage of reference at touch of a key Error Display Internal LED displays error messages to alert user of programming errors or system faults Internal Memony Non-Voltalle memory stores all programming during power loss Enclosure Floreiges (NEMA 4X), optional steel (NEMA 4) enclosure available Proportional to rotational speed, 0 to 2 VDC output (1 VDC equals 100%); or Optional analog current output signal (selectable 4-20 m Aor 0-20 m/a) available Perportional to rotational speed, 0 to 2 VDC output (1 VDC equals 100%); or Optional analog current output signal (selectable 4-20 m Aor 0-20 m/a) available Proportional to rotational speed, 0 to 2 VDC output (1 VDC equals 100%); or Optional analog current output signal (selectable NC/NO) Operating Range Mainternal protate good and the selectable NC/NO) Power Consumption 10 Watts nominal (18 Watts maximum) Maximum priority selectable (12 Watts maximum) Maximum priority selectable (12 Watts new/mum) Maximum priority selectable (12 Watts maximum) Maximum priority selectable (12 Watts maximum) Maximum priority selectable (13 Watts maximum) Maximum priority selectable (14 Watts new/mum) Max		77 0
Speed Display Internal LED displays current speed as a percentage of reference at touch of a key	Begin Start-Up Delay	Selectable: Power On or First Speed Pulse
Internal LED displays urrent speed as a percentage of reference at touch of a key	Alarm Clear	Selectable: Manual Reset (latched) or Automatic Reset (unlatched)
Internal LED displays error messages to alert user of programming errors or system faults Internal Memory Non-Volatile memory stores all programming during power loss Enclosure Fibroglass (RIEMA 4N), polional sted (RIEMA 4) enclosure availabile Proportional to rotational spaced, (10 oz VIDC output (1 VDC equals 100%); or Optional analog current output signal (Selectable 4.20 m Aor 0-20 mA) availabile Alarm Contacts DPDT Relay(s) 230 VAC, 5A Non-Inductive 2A Inductive (Selectable NC/NO) Operating Range Maximum input speed pulse rate = 1000 hz; Minimum input speed pulse rate = 0.2 hz (5 seconds in between pulses (Hz = RIPM Pulses per Revolution / 60) Mate: Now pulse rates may limit how low the Alarm Set-point can be adjusted 10 Watts nominal (15 Watts maximum) Max Wiring Distance 610 m (2000 ft) between controller and sensor when running at 300 Hz or less Model Specific Specifications Input Power Voltage 60-200-SC: Selectable 115/230 VAC (50/60 Hz) ±10% 60-200-DC: Sis to 250 VAC (50/60 Hz) +10% 60-200-DC: Sis to 250 VAC (50/60 Hz) +10% 60-200-DC: New nodependently adjustable alarms with (1) DPDT relay per alarm Sensor Input 60-200-SC: NPM 60-200-DC: Two nodependently adjustable alarms with (1) DPDT relay per alarm Supply Voltage to Sensor 60-200-SC: PVDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Operating Temperature -25°C to +70°C (-13°F to +158°F), lower temp rating available upon request Sensor to Target Range 60-221 Liow Speed system: 12-mm sensor has a 10-mm (0.394-in) nominal gap 60-221 Liow Speed system: 12-mm sensor has a 10-mm (0.394-in) nominal gap 60-221 Liow Speed system: 12-mm sensor has a 10-mm (0.394-in) nominal gap 60-221 Liow Speed system: 12-mm sensor has a 10-mm (0.394-in) nominal gap 60-221 Liow Speed system: 12-mm sensor has a 10-mm (0.394-in) nominal gap 60-221 Liow Speed system: 12-mm sensor has a 10-mm (0.	General Features and Specificatio	ns
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Enclosure Fiberglass (NEMA 4X), optional steel (NEMA 4) enclosure available Proportional to retational speed, or 10 2 VIDC output (1 VIDC equals 100%); or Optional analog current output signal (Selectable 4-20 m An or 10-20 m.A) available Alarm Contacts DPDT Relay(s) 230 VAC, 5.4 Non-Inductive 2A Inductive (Selectable NC/NO) Operating Range Maximum input speed by Minimum input speed pulse rate = 0.2 Hz (5 seconds in between pulses (Hz = RPM x Pulses per Revolution 16) Note: low pulse rates may limit how low the Alarm Sel-point can be adjusted Power Consumption 10 Watts nominal (15 Watts maximum) Max Wring Distance 61 on (2000 ft) between controller and sensor when running at 300 Hz or less Model Specific Specifications Input Power Voltage 60-200-SC: Selectable 115/230 VAC (50/60 Hz) ±10% 60-200-SC: Selectable 115/230 VAC (50/60 Hz) ±10% 60-200-SC: Selectable 115/230 VAC (50/60 Hz) ±10% 60-200-Cc: 38 to 250 VAC (50/60 Hz) 60-200-Cc: 38 to 250 VAC (50/60 Hz) 60-200-Cc: 30 to 40 Hz or Hz	Error Display	Internal LED displays error messages to alert user of programming errors or system faults
Proportional to rotational speed, 0 to 2 VDC output (1 VDC equals 100%); or Optional analog current output signal (Selectable 4-20 mA or 0-20 mA) available (Selectable NC/NO) Operating Range	Internal Memory	Non-Volatile memory stores all programming during power loss
(Selectable 4-20 mA or 0-20 mA) available Alarm Contacts DPDT Relay(s) 230 VAC, 5A Non-Inductive (Selectable NC/NO) Operating Range Maximum input speed pulse rate = 1000 Hz; Minimum input speed pulse rate = 0.2 Hz (5 seconds in between pulses; Hz = RPM x Pulses per Revolution / 60) Note: two pulse rates may limit how low the Alarm Set-point can be adjusted Power Consumption 10 Watts nominal (16 Watts maximum) Max Wiring Distance 610 m (2000 ft) between controller and sensor when running at 300 Hz or less Model Specific Specifications Input Power Voltage 60-200-SC: Selectable 115/230 VAC (50/60 Hz) ±10% 60-200-DC: 85 to 250 VAC (50/60 Hz) ±10% 60-200-DC: 85 to 250 VAC (50/60 Hz) 60-200-DC: 85 to 250 VAC (50/60 Hz) 60-200-DC: 85 to 250 VAC (50/60 Hz) 60-200-DC: -00°Cto +85°C*(-40°F to +185°F) Alarm Outputs 60-200-SC: One adjustable alarm with (1) DPDT relay 60-200-DC: Two independently adjustable alarms with (1) DPDT relay per alarm Sensor Input 60-200-DC: 12 VDC. 150 mA 80-200-DC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -2-5°C to +70°C (-13°F to +156°F), lower temp rating available upon request Sensor to Target Range 60-221 Low Speed system: 12-mm sensor has a 1-mm (0.394-in) nominal gap 60-221 Low Speed system: 12-mm sensor has a 1-mm (0.394-in) nominal gap Detection Indicator LED on sensor lights when target is in range, helpful for adjusting sensor position and troubleshooting Chrome plated brass with plastic face, stainless steel housings are available Sensor Housing Chrome plated brass with plastic face, stainless steel housings are available FM approved for Class I & II, Division 2 (not for use in Canada) SRO Technology Ramsey Model 60-240 Direct Coupled Speed Sensors General Specifications Output Open collector NPN, up to 100 mA current sinking Operating Temperature -40°C to +85°C (-40°F to +185°F) Ele	Enclosure	Fiberglass (NEMA 4X), optional steel (NEMA 4) enclosure available
Operating Range Maximum input speed pulse rate = 10.00 Hz; Minimum input speed pulse rate = 0.2 Hz (5 seconds in between pulses (Hz = RFM x Pulses per Revolution / 60) Note: You pulse rates may limit how low the Alarm Set-point can be adjusted Power Consumption 10 Watts nominal (15 Watts maximum) Max Wiring Distance 610 m (2000 ft) between controller and sensor when running at 300 Hz or less Model Specific Specifications 60-200-SC: Selectable 115/230 VAC (50/60 Hz) Input Power Voltage 60-200-SC: Selectable 115/230 VAC (50/60 Hz) 60-200-Dc: Sci Selectable 115/230 VAC (50/60 Hz) Operating Temperature 60-200-SC: Selectable 115/230 VAC (50/60 Hz) Alarm Outputs 60-200-SC: One adjustable alarm with (1) DPDT relay 60-200-SC: NPN 60-200-SC: NPN 60-200-SC: NPN 60-200-SC: NPN 50-200-DC: NPN, PNP, or Namur 80-200-DC: 12 VDC, 75 mA Supply Voltage to Sensor 60-200-SC: 12 VDC, 75 mA General Specifications 8RO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications 9Poperating Temperature -25°C to +70°C (13°F to +158°F), lower temp rating available upon request Sensor to Target Range 60-220 High Speed system: 30-mm sensor has a 10-mm (0.394-in) nominal gap Detection Indicator LED on s	Speed Output	
Power Consumption 10 Watts nominal (15 Watts maximum) Max Wiring Distance 610 m (2000 ft) between controller and sensor when running at 300 Hz or less Model Specifications Input Power Voltage 60-200-SC: Selectable 115/230 VAC (50/60 Hz) 60-200-SC: Selectable 115/230 VAC (50/60 Hz) 60-200-SC: 40°C to +50°C (40°F to +122°F) 60-200-SC: 40°C to +50°C (40°F to +122°F) 60-200-SC: 40°C to +50°C (40°F to +122°F) 60-200-SC: 40°C to +50°C (40°F to +185°C) Alarm Outputs 60-200-SC: 10 ea adjustable alarm with (1) DPDT relay per alarm Sensor Input 60-200-SC: 10 PN, PNP, PNP, or Namur Supply Voltage to Sensor 60-200-SC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -25°C to +70°C (-13°F to +158°F), lower temp rating available upon request Sensor to Target Range 60-22H High Speed system: 12-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.394-in) nominal gap Detection Indicator LED on sensor lights when target is in range, helpful for adjusting sensor position and troubleshooting Cable 6-m (20-1) Standard cable length, optional longer cables available Sensor Housing Chrome plated brass with plastic face, stainless steel housings are available Razardous Area Approvals FM approved for Class I. & II, Division 2 (not for use in Canada) SRO Technology Ramsey Model 60-240 Direct Coupled Speed Sensors General Specifications Output Open collector NPN, up to 100 mA current sinking Operating Temperature 40°C to +85°C (-40°F to +185°F) Electrical Connection Furnished with 1/2-in NPT conduit fitting and 5-ft 22 AWG leads with butt splices Sensor Housing Polished aluminum Sensor Resolution 60-24H High Speed system: 60-242-12P-12V speed sensor with 80 pulses/revolution 60-24H High Speed system: 60-242-12P-12V speed sensor with 80 pulses/revol	Alarm Contacts	DPDT Relay(s) 230 VAC, 5A Non-Inductive 2A Inductive (Selectable NC/NO)
Max Wiring Distance 610 m (2000 ft) between controller and sensor when running at 300 Hz or less Model Specific Specifications Input Power Voltage 60-200-SC: Selectable 115/230 VAC (50/60 Hz) ±10% 60-200-DC: 48° to ±50° VAC (50/60 Hz) 60-200-DC: 40° to ±50° VC (40° Fto ±122° Ft) 60-200-DC: 40° to ±50° VC (40° Fto ±185° Ft) Alarm Outputs 60-200-SC: One adjustable alarm with (1) DPDT relay 60-200-DC: Wo independently adjustable alarms with (1) DPDT relay per alarm Sensor Input 60-200-SC: NPN, NPN, or Namur Supply Voltage to Sensor 60-200-DC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -25°C to ±70°C (13° Fto ±158°F), lower temp rating available upon request Sensor to Target Range 60-22H High Speed system: 30-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 18-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 18-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 18-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 18-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 18-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 60-242-80P-242 Speed sensor with 12 pulses/revolution 60-24L High Speed system: 60-242-80P-242 Speed sensor with 12 pulses/revolution 60-24L High Speed system: 60-242-80P-1242 Speed sensor with 12 pulses/revolution 60-24L High Speed system: 60-242-80P-1242 Speed sensor with 12 pulses/revolution 60-24H High Speed system: 60-242-80P-1242 Speed sensor with 12 pulses/revolution 60-24H High Speed system: 60	Operating Range	Maximum input speed pulse rate = 1000 Hz; Minimum input speed pulse rate = 0.2 Hz (5 seconds in between pulses (Hz = RPM x Pulses per Revolution / 60) Note: low pulse rates may limit how low the Alarm Set-point can be adjusted
Input Power Voltage	Power Consumption	10 Watts nominal (15 Watts maximum)
Input Power Voltage 60-200-SC: Selectable 115/230 VAC (50/60 Hz) ±10% 60-200-SC: 40°C to +50°C (40°F to +122°F) 60-200-DC: 85 to 250 VAC (50/60 Hz) 60-200-SC: 40°C to +50°C (40°F to +185°F) 60-200-SC: 40°C to +50°C (40°F to +185°F) 60-200-SC: One adjustable alarm with (1) DPDT relay per alarm 60-200-SC: NPN 60-200-DC: NPN 60-200-SC: NPN 60-200-SC: NPN 60-200-SC: NPN 60-200-SC: NPN 60-200-SC: NPN 60-200-SC: 12 VDC, 75 mA 60-200-SC: 12 VDC, 75 mA 60-200-SC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -25°C to +70°C (-13°F to +158°F), lower temp rating available upon request 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-221 Linking Speed system: 60-224-80 Polev Speed sensor with 12 pulses/revolution 60-241 Linking Speed system: 60-242-80P-12V speed sensor with 12 pulses/revolution 6	Max Wiring Distance	610 m (2000 ft) between controller and sensor when running at 300 Hz or less
Operating Temperature 60-200-SC: 40°C to +50°C (-40°F to +122°F) 60-200-SC: 40°C to +50°C (-40°F to +185°F) Alarm Outputs 60-200-SC: One adjustable alarm with (1) DPDT relay 60-200-DC: 40°C to +85°C (-40°F to +185°F) Alarm Outputs 60-200-SC: New adjustable alarms with (1) DPDT relay per alarm 60-200-SC: NPN 60-200-DC: NPN, PNP, or Namur Supply Voltage to Sensor 60-200-SC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -25°C to +70°C (-13°F to +158°F), lower temp rating available upon request Sensor to Target Range 60-22H High Speed system: 30-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap Detection Indicator LED on sensor lights when target is in range, helipful for dijusting sensor position and troubleshooting Cable 6-m (20-ft) standard cable length, optional longer cables available Sensor Housing Chrome plated brass with plastic face, stainless steel housings are available FM approved for Class I & II, Division 2 (not for use in Canada) SRO Technology Ramsey Model 60-240 Direct Coupled Speed Sensors General Specifications Output Open collector NPN, up to 100 mA current sinking Operating Temperature -40°C to +85°C (-40°F to +185°F) Electrical Connection Furnished with 1/2-in NPT conduit fitting and 5-ft 22 AWG leads with butt splices Sensor Housing Polished aluminum Optional Mounting Hardware Kit with rigid coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and flexible strap for shaft speeds up to 200 RPM (-F); Hazardous Area Approvals	Model Specific Specifications	
60-200-DC: -40°C to -485°C (-40°F to +185°F) Alarm Outputs 60-200-SC: One adjustable alarm with (1) DPDT relay per alarm 60-200-SC: NPN 60-200-DC: Two independently adjustable alarms with (1) DPDT relay per alarm Sensor Input 60-200-SC: NPN 60-200-DC: NPN, NPN, or Namur Supply Voltage to Sensor 60-200-SC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -25°C to +70°C (-13°F to +158°F), lower temp rating available upon request Sensor to Target Range 60-22H High Speed system: 30-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 10-mm (0.157-in) nominal gap 60-22L Low Speed system: 60-242-12P-12V speed sensor with 12 pulses/revolution 60-24H Ligh Speed system: 60-242-12P-12V speed sensor with 12 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80	Input Power Voltage	60-200-SC: Selectable 115/230 VAC (50/60 Hz) ±10% 60-200-DC: 85 to 250 VAC (50/60 Hz)
Sensor Input 60-200-DC: Two independently adjustable alarms with (1) DPDT relay per alarm 60-200-DC: SC: NPN 60-200-DC: NPN, PNP, or Namur Supply Voltage to Sensor 60-200-SC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -25°C to +70°C (-13°F to +158°F), lower temp rating available upon request Sensor to Target Range 60-22H High Speed system: 30-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 30-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Inous Speed system: 60-240 Direct Coupled Speed Sensors 60-24D High Speed system: 60-242-3D-12V speed sensor with 12 pulses/revolution 60-24L Inous Speed system: 60-242-3D-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-3D-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-3D-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-3D-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-3D-12V speed sensor with 80 pulses/revolution 60-	Operating Temperature	
Supply Voltage to Sensor 60-200-DC: NPN, PNP, or Namur 60-200-DC: 12 VDC, 75 mA 60-200-DC: 12 VDC, 150 mA SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -25°C to +70°C (-13°F to +158°F), lower temp rating available upon request Sensor to Target Range 60-22H High Speed system: 30-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 60-240-Direct Coupled Speed Sensors Resource Specifications Open callector NPN, up to 100 mA current sinking Operating Temperature -40°C to +85°C (-40°F to +185°F) Electrical Connection Furnished with 17-2 in NPT conduit fitting and 5-ft 22 AWG leads with butt splices Sensor Housing Polished aluminum Sensor Resolution 60-24H High Speed system: 60-242-12P-12V speed sensor with 12 pulses/revolution 60-24L Low Speed system: 60-242-12P-12V speed sensor with 80 pulses/revolution 60-24L Low Speed system: 60-242-12P-12V speed sensor with 80 pulses/revolution Kit with flexible coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and flexible strap for shaf	Alarm Outputs	
SRO Technology Ramsey Model 60-220 Proximity Speed Sensors General Specifications Output Open collector NPN, up to 200 mA current sinking Operating Temperature -25°C to +70°C (-13°F to +158°F), lower temp rating available upon request Sensor to Target Range 60-22H High Speed system: 30-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap 60-22L Low Speed sensor position and troubleshooting 6-m (20-ft) standard cable length, optional longer cables available 6-m (20-ft) standard cable length, optional longer cables available 6-m (20-ft) standard cable length, optional longer cables available 7-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables available 8-m (20-ft) standard cable length, optional longer cables avail	Sensor Input	
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Sensor to Target Range 60-22H High Speed system: 30-mm sensor has a 10-mm (0.394-in) nominal gap 60-22L Low Speed system: 12-mm sensor has a 4-mm (0.157-in) nominal gap Detection Indicator LED on sensor lights when target is in range, helpful for adjusting sensor position and troubleshooting Cable 6-m (20-ft) standard cable length, optional longer cables available Sensor Housing Chrome plated brass with plastic face, stainless steel housings are available Hazardous Area Approvals FM approved for Class I & II, Division 2 (not for use in Canada) SRO Technology Ramsey Model 60-240 Direct Coupled Speed Sensors General Specifications Output Open collector NPN, up to 100 mA current sinking Operating Temperature -40°C to +85°C (-40°F to +185°F) Electrical Connection Furnished with 1/2-in NPT conduit fitting and 5-ft 22 AWG leads with butt splices Sensor Housing Polished aluminum Sensor Resolution 60-24H High Speed system: 60-242-12P-12V speed sensor with 12 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution Optional Mounting Hardware Kit with rigid coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and rigid mounting bracket for speeds in excess of 200 RPM (-R) Hazardous Area Approvals FM and CSA approved for Class II, Division 1 & 2, Group E, F, & G hazardous areas;		
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Sensor Housing Chrome plated brass with plastic face, stainless steel housings are available FM approved for Class I & II, Division 2 (not for use in Canada) SRO Technology Ramsey Model 60-240 Direct Coupled Speed Sensors General Specifications Output Open collector NPN, up to 100 mA current sinking Operating Temperature -40°C to +85°C (-40°F to +185°F) Electrical Connection Furnished with 1/2-in NPT conduit fitting and 5-ft 22 AWG leads with butt splices Sensor Housing Polished aluminum Sensor Resolution 60-24H High Speed system: 60-242-12P-12V speed sensor with 12 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution Coptional Mounting Hardware Kit with rigid coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and rigid mounting bracket for speeds in excess of 200 RPM (-R) Hazardous Area Approvals FM and CSA approved for Class II, Division 1 & 2, Group E, F, & G hazardous areas;	Detection Indicator	LED on sensor lights when target is in range, helpful for adjusting sensor position and troubleshooting
Hazardous Area Approvals FM approved for Class I & II, Division 2 (not for use in Canada) SRO Technology Ramsey Model 60-240 Direct Coupled Speed Sensors General Specifications Output Open collector NPN, up to 100 mA current sinking Operating Temperature -40°C to +85°C (-40°F to +185°F) Electrical Connection Furnished with 1/2-in NPT conduit fitting and 5-ft 22 AWG leads with butt splices Sensor Housing Polished aluminum Sensor Resolution 60-24H High Speed system: 60-242-12P-12V speed sensor with 12 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution Optional Mounting Hardware Kit with rigid coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and rigid mounting bracket for speeds in excess of 200 RPM (-R) FM and CSA approved for Class II, Division 1 & 2, Group E, F, & G hazardous areas;	Cable	6-m (20-ft) standard cable length, optional longer cables available
SRO Technology Ramsey Model 60-240 Direct Coupled Speed Sensors General Specifications Output Open collector NPN, up to 100 mA current sinking Operating Temperature -40°C to +85°C (-40°F to +185°F) Electrical Connection Furnished with 1/2-in NPT conduit fitting and 5-ft 22 AWG leads with butt splices Sensor Housing Polished aluminum Sensor Resolution 60-24H High Speed system: 60-242-12P-12V speed sensor with 12 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution Optional Mounting Hardware Kit with rigid coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and rigid mounting bracket for speeds in excess of 200 RPM (-R) Hazardous Area Approvals FM and CSA approved for Class II, Division 1 & 2, Group E, F, & G hazardous areas;	Sensor Housing	Chrome plated brass with plastic face, stainless steel housings are available
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Sensor Housing Polished aluminum Sensor Resolution 60-24H High Speed system: 60-242-12P-12V speed sensor with 12 pulses/revolution 60-24L Low Speed system: 60-242-80P-12V speed sensor with 80 pulses/revolution Optional Mounting Hardware Kit with rigid coupling and flexible strap for shaft speeds up to 200 RPM (-F); or Kit with flexible coupling and rigid mounting bracket for speeds in excess of 200 RPM (-R) Hazardous Area Approvals FM and CSA approved for Class II, Division 1 & 2, Group E, F, & G hazardous areas;		,
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	Hazardous Area Approvals	FM and CSA approved for Class II, Division 1 & 2, Group E, F, & G hazardous areas;

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