



INSTRUMENTS

Amplifiers and Controls

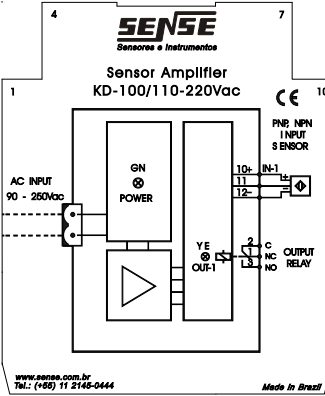
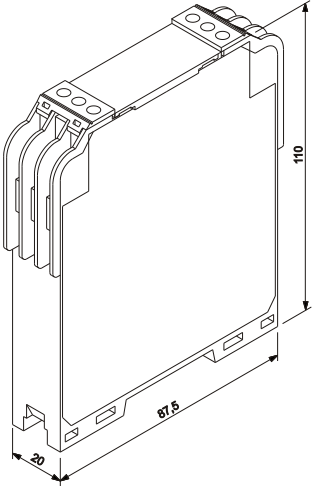
Galvanic Isolators

Power Supply

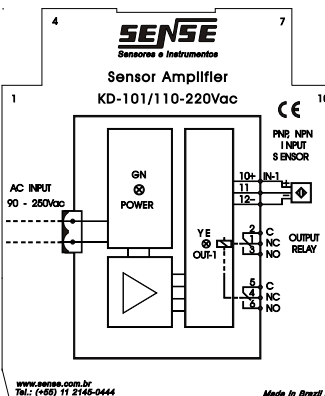
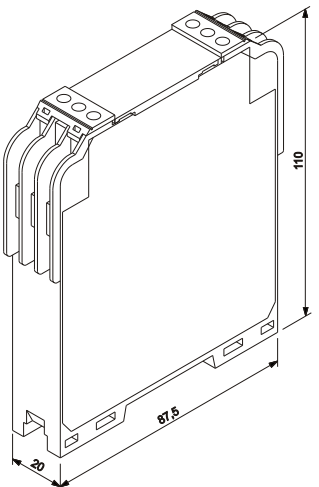


AMPLIFIERS AND CONTROLS - KD

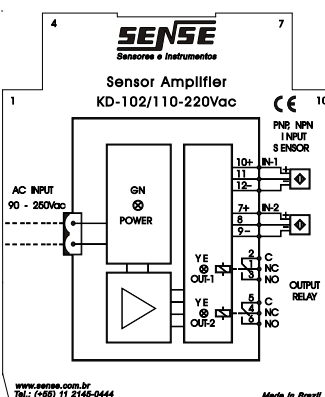
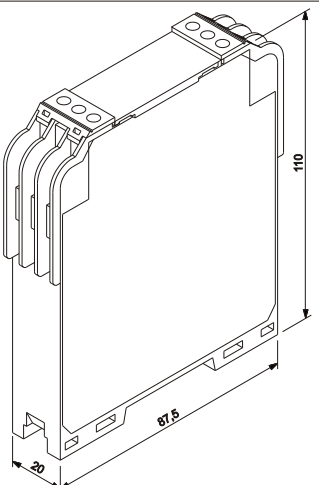
SUPPLY FOR SENSOR - Single channel and relay output

	Model	Input	Diagram	Mechanical Drawing
KD-100/110-220Vac (-P)	 Single channel amplifier, relay output and input sensors with electrical configuration in DC (PNP and NPN).	A sensor input in DC 24Vdc.		
		Output		
		A relay output with reversible contact SPDT.		

SUPPLY FOR SENSOR - Single channel and relay output DPDT

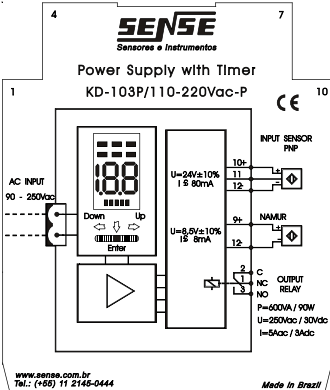
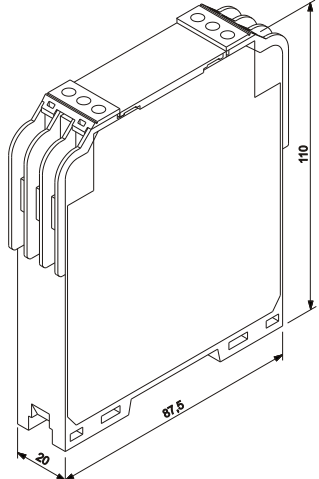
	Model	Input	Diagram	Mechanical Drawing
KD-101/110-220Vac (-P)	 Single channel amplifier, relay output with DPDT contacts and input sensors in DC (PNP e NPN).	A sensor input in DC 24Vdc.		
		Output		
		A relay output with 2 reversible DPDT contact.		

SUPPLY FOR SENSOR - Dual channel and dual relay output

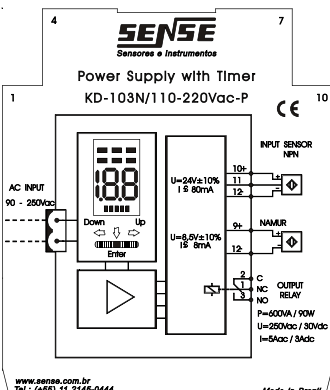
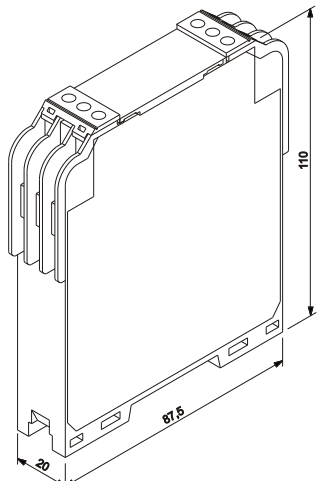
	Model	Input	Diagram	Mechanical Drawing
KD-102/110-220Vac (-P)	 Amplifier dual channel, 2 independent channels with sensor inputs in DC (PNP and NPN). Two relay outputs with 1 SPDT contact for each channel.	Two sensor inputs in DC 24Vdc.		
		Output		
		Two relay outputs, 1 reversible contact SPDT each output.		

AMPLIFIERS AND CONTROLS - KD

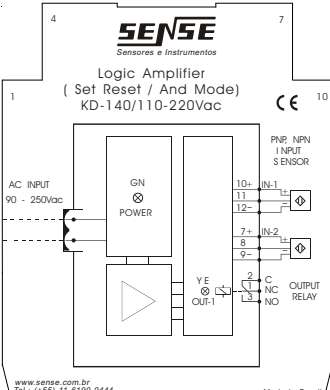
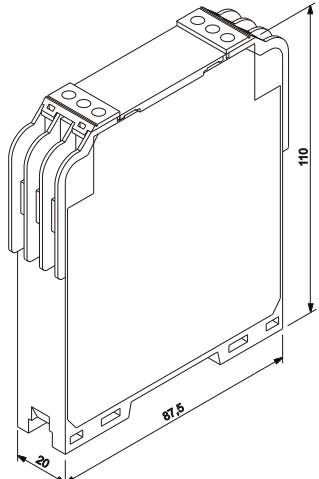
TIMER FOR SENSOR PNP OR NAMUR

	Model	Input	Diagram	Mechanical Drawing
KD-103P/110-220Vac (-P)		Two sensor inputs in DC 24Vdc (PNP or Namur).		
		Output		
	Source temporized with display, easy programming, with three tracks timer (0 to 0.99 s, 0 to 0 to 9s and 99s). It has function ON-delay, power down or timed pulse.	A relay output with reversible contact SPDT.		

TIMER FOR SENSOR NPN OR NAMUR

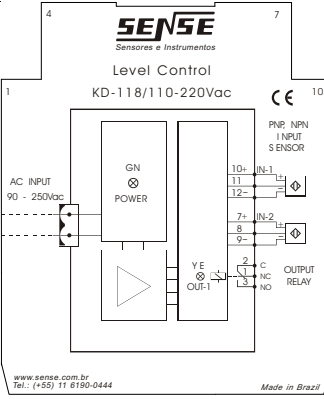
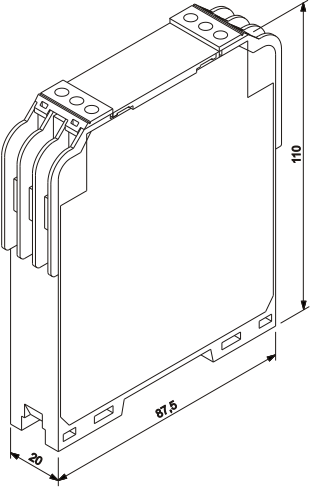
	Model	Input	Diagram	Mechanical Drawing
KD-103N/110-220Vac (-P)		Two sensor inputs in DC 24Vdc (NPN or Namur).		
		Output		
	Source temporized with display, easy programming, with three tracks timer (0 to 0.99s, 0 to 9s and 0 to 99s). It has function ON-delay, power down or timed pulse.	A relay output with reversible contact SPDT.		

FLIP-FLOP CONTROLLER

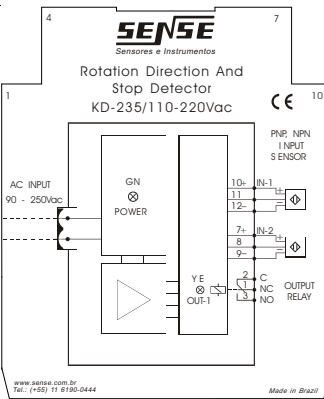
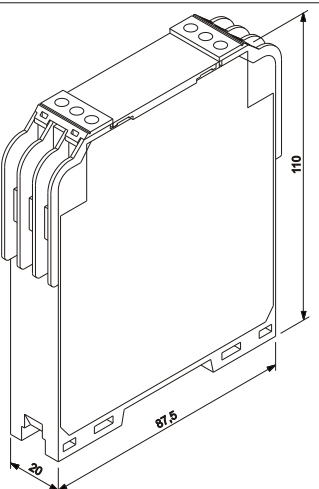
	Model	Input	Diagram	Mechanical Drawing
KD-140/110-220Vac (-P)		Two sensor inputs in DC 24Vdc (PNP or NPN).		
		Output		
	Logical amplifier with function SET / RESET or AND for proximity sensors with electrical configuration in DC PNP or NPN.	A relay output with reversible contact SPDT.		

AMPLIFIERS AND CONTROLS - KD

LEVEL CONTROLLER

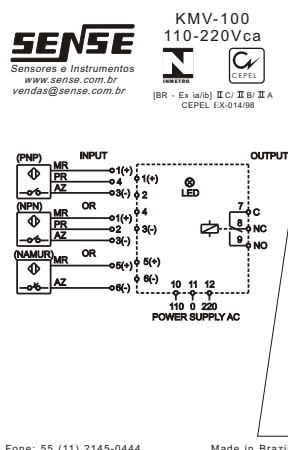
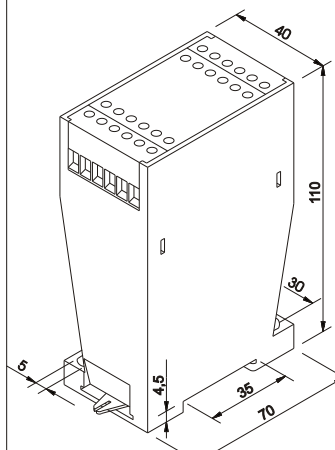
	Model	Input	Diagram	Mechanical Drawing
KD-118/110-220Vac (-P)	 Level controller for use in wells or reservoirs. The ON / OFF control level is implemented through two proximity sensors, generally capacitive type.	Two sensor inputs in DC 24Vdc (PNP or NPN). Output A relay output with reversible contact SPDT.		

MONITOR OF DIRECTION AND ROTATION

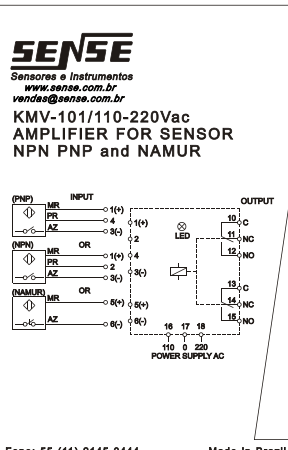
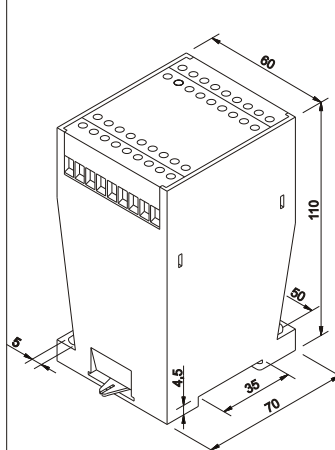
	Model	Input	Diagram	Mechanical Drawing
KD-235/110-220Vac (-P)	 Detects the rotation direction and stop motors, reducers, fans, etc. The detection is made by two proximity sensors, usually inductive type.	Two sensor inputs in DC 24Vdc (PNP or NPN). Output A relay output with reversible contact SPDT.		

AMPLIFIERS AND CONTROLS - KMV

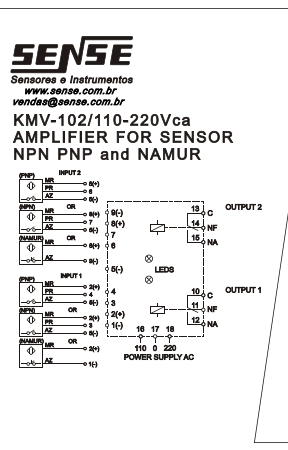
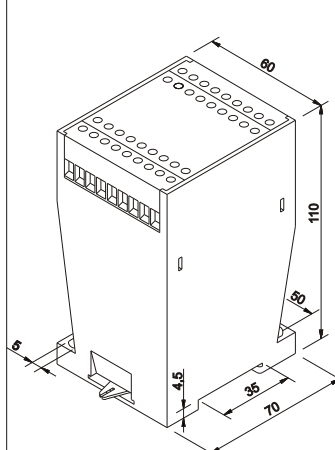
SUPPLY FOR SENSOR - Single channel and relay output

	Model	Input	Diagram	Mechanical Drawing
KMV-100/110-220Vac	 Single channel amplifier, relay output and input sensors PNP, NPN or Namur.	A sensor input in DC 24Vdc or Namur.	 KMV-100 110-220Vca Sense e Instrumentos www.sense.com.br vendas@sense.com.br (BR - Ex. In/II) II C II B II A CEPEL EX-014/98 Fone: 55 (11) 2145-0444 Made in Brazil	
		Output A relay output with reversible contact SPDT.		

SUPPLY FOR SENSOR - Single channel and dual relay output

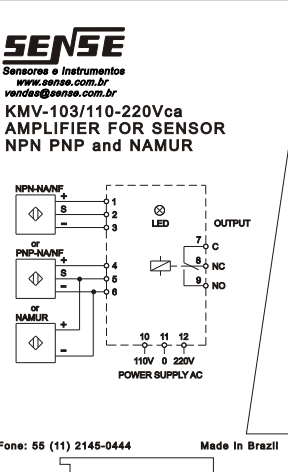
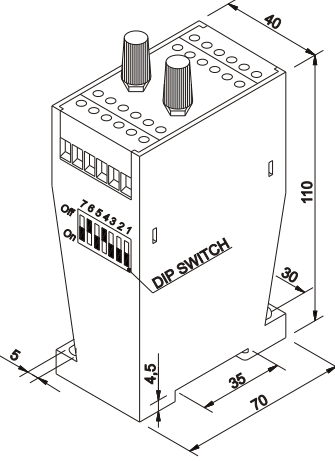
	Model	Input	Diagram	Mechanical Drawing
KMV-101/110-220Vac	 Dual channel amplifier, two independent relay outputs and input sensors PNP, NPN or Namur.	A sensor input in DC 24Vdc or Namur.	 Sense e Instrumentos www.sense.com.br vendas@sense.com.br KMV-101/110-220Vac AMPLIFIER FOR SENSOR NPN PNP and NAMUR Fone: 55 (11) 2145-0444 Made in Brazil	
		Output A relay output with 2 reversible contacts DPDT.		

SUPPLY FOR SENSOR - Dual channel and dual relay output

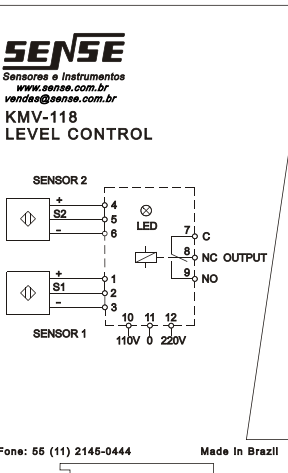
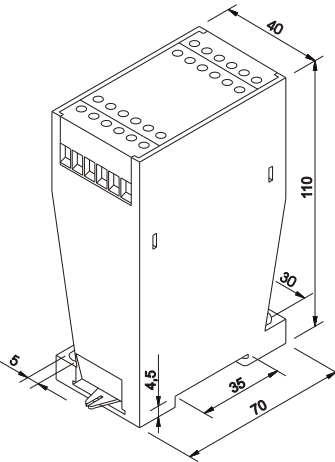
	Model	Input	Diagram	Mechanical Drawing
KMV-102/110-220Vac	 Dual channel amplifier, two independent relay outputs and two sensor input PNP, NPN or Namur.	Two sensor input in DC 24Vdc or Namur.	 Sense e Instrumentos www.sense.com.br vendas@sense.com.br KMV-102/110-220Vac AMPLIFIER FOR SENSOR NPN PNP and NAMUR Fone: 55 (11) 2145-0444 Made in Brazil	
		Output Two relay output, 1 reversible contacts SPDT each output.		

AMPLIFIERS AND CONTROLS - KMV

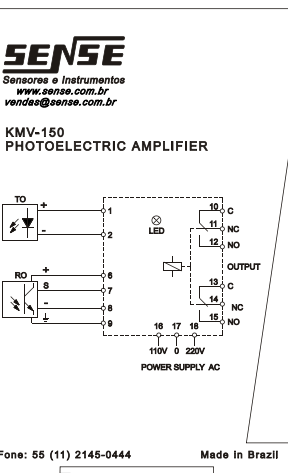
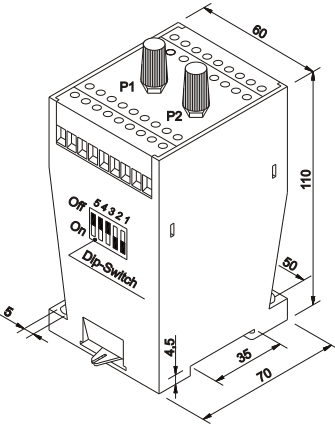
TIMER FOR SENSOR (ANALOG)

	Model	Input	Diagram	Mechanical Drawing
KMV-103/110-220Vac	 Source timed, easy programming, with three tracks timing (0 to 0.6 s, 0 and 0 to 6s to 60s). It has function ON-delay, power down and pulse temporized.	Two sensor input in DC 24Vdc or Namur.	 SENSE Sensors e Instrumentos www.sense.com.br vendas@sense.com.br KMV-103/110-220Vca AMPLIFIER FOR SENSOR NPN PNP and NAMUR Fone: 55 (11) 2145-0444 Made In Brazil	
		Output		
		A relay output with reversible contact SPDT.		

LEVEL CONTROLLER

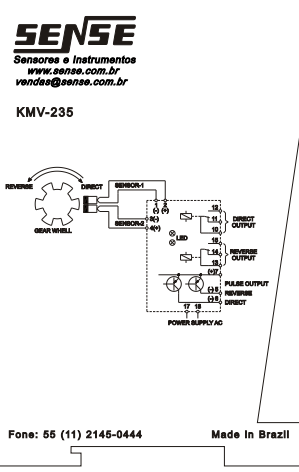
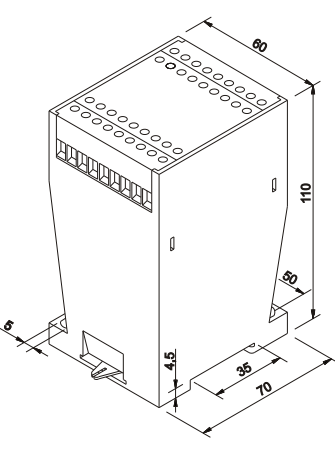
	Model	Input	Diagram	Mechanical Drawing
KMV-118/110-220Vac	 Level controller for use in wells or reservoirs. The ON / OFF control level is implemented through two proximity sensors, generally capacitive type.	Two sensor input in DC 24Vdc.	 SENSE Sensors e Instrumentos www.sense.com.br vendas@sense.com.br KMV-118 LEVEL CONTROL Fone: 55 (11) 2145-0444 Made In Brazil	
		Output		
		A relay output with reversible contact SPDT.		

AMPLIFIER FOR PHOTOELECTRIC SENSORS

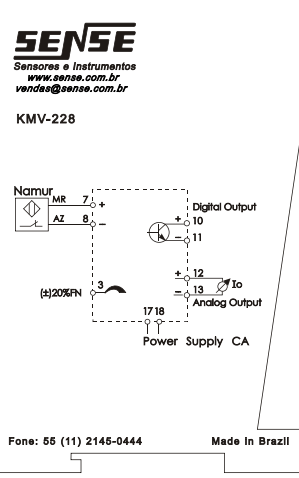
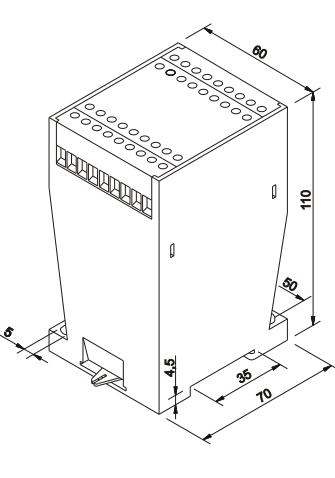
	Model	Input	Diagram	Mechanical Drawing
KMV-150/110-220Vac	 Power supply timed exclusive for M8 and M12 photoelectric sensors that do not have the output stage.	M8 or M12 optical sensor input.	 SENSE Sensors e Instrumentos www.sense.com.br vendas@sense.com.br KMV-150 PHOTOELECTRIC AMPLIFIER Fone: 55 (11) 2145-0444 Made In Brazil	
		Output		
		A relay output with 2 reversible contact DPDT.		

AMPLIFIERS AND CONTROLS - KMV

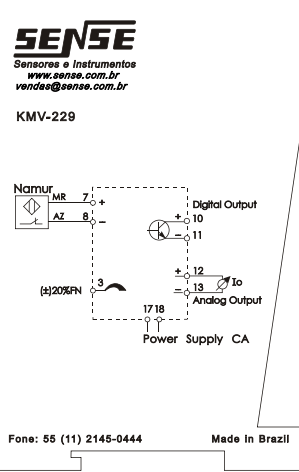
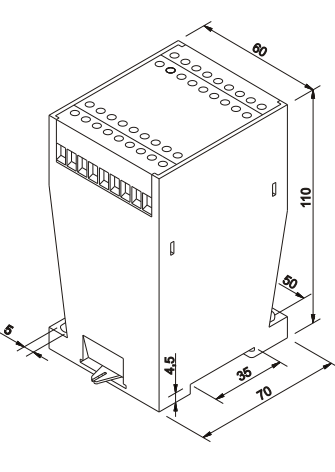
MONITOR OF DIRECTION AND ROTATION

	Model	Input	Diagram	Mechanical Drawing
KMV-235/110Vac		Two inputs for proximity sensors type Namur.		
		Output		
	Detects the rotation direction and stop motors, reducers, fans, etc. The detection is made by two proximity sensors, typically inductive.	Two transistor outputs and two SPDT relay outputs.		

CONVERTER FREQUENCY / CURRENT (4-20mA)

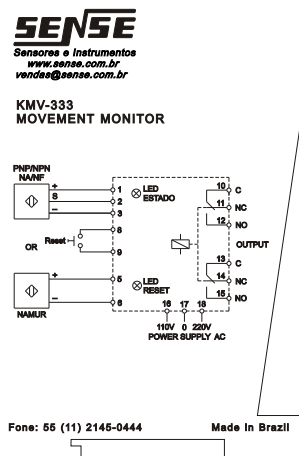
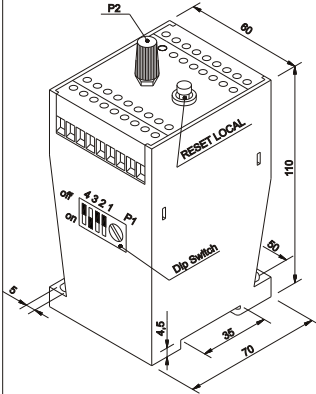
	Model	Input	Diagram	Mechanical Drawing
KMV-228/110Vac		Namur or dry contact sensor input.		
		Output		
	It's a frequency converter for current that transforms the pulse signal generated by proximity sensor into an analog signal Frequency range of 1Hz to 1KHz.	A discrete output PNP open collector and an analog 4-20mA or 1-5Vdc.		

CONVERTER FREQUENCY / CURRENT (0-20mA)

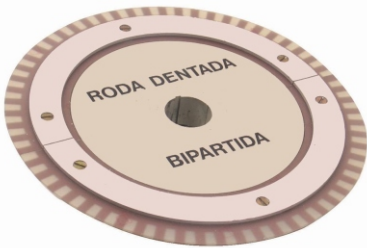
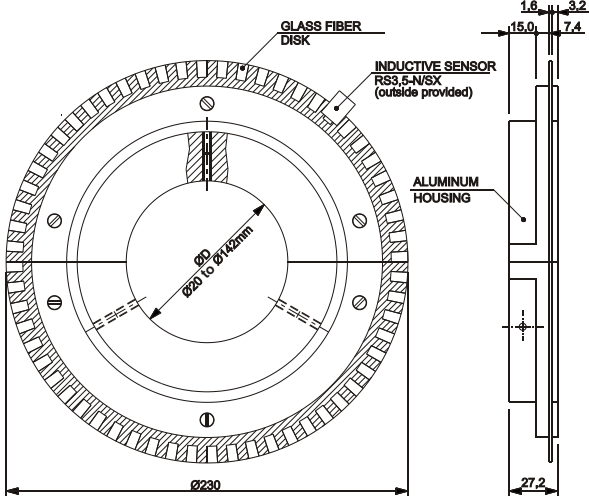
	Model	Input	Diagram	Mechanical Drawing
KMV-229/110Vac		Namur or dry contact sensor input..		
		Output		
	It's a frequency converter for current that transforms the pulse signal generated by proximity sensor into an analog signal Frequency range of 1Hz to 1KHz.	A discrete output PNP open collector and an analog 0-20mA or 0-5Vcc.		

AMPLIFIERS AND CONTROLS - KMV

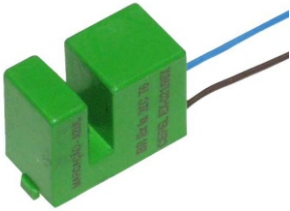
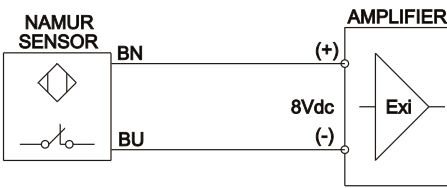
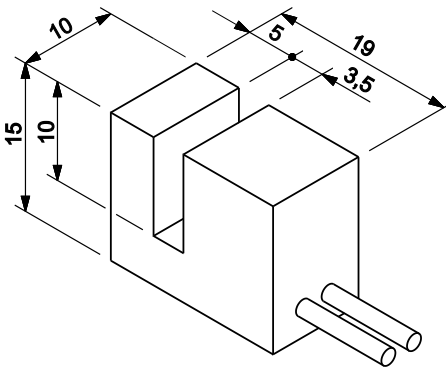
SPEED MONITOR (ANALOG)

	Model	Input	Diagram	Mechanical Drawing
KMV-333/110-220Vac	 Monitors the fall, stop or speed increase in equipment such as: motors, reducers, mixers, etc. The detection of rotation can be done by proximity sensors, typically inductive.	PNP or NPN sensor input and another for Namur sensor. Output A relay output with 2 reversible contact DPDT.	 SENSE Sensores e Instrumentos www.sense.com.br vendas@sense.com.br KMV-333 MOVEMENT MONITOR PNP/NPN NAMUR OR Reset NAMUR LED ESTADO LED RESET 110V 0 220V POWER SUPPLY AC Fone: 55 (11) 2145-0444 Made In Brazil	 P2 RESET LOCAL Dip Switch 4.321 P1 80 110 35 70 4.5

GEAR WHEEL BIPARTITE

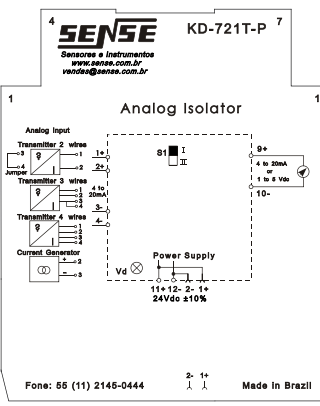
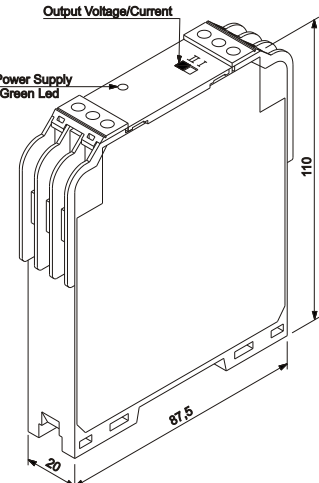
	Model	Mechanical Drawing
RD60-230/FXXX-Bi	 RODA DENTADA BIPARTIDA The gear wheel bipartite is suitable for monitoring of axles with low rotation and should be used in conjunction with a slot type sensor. RS3,5-N/SX	 GLASS FIBER DISK INDUCTIVE SENSOR RS3,5-N/SX (outside provided) ALUMINUM HOUSING Ø230 Ø20 to Ø142mm 1.8 3.2 15.0 7.4 27.2

SLOT TYPE SENSOR

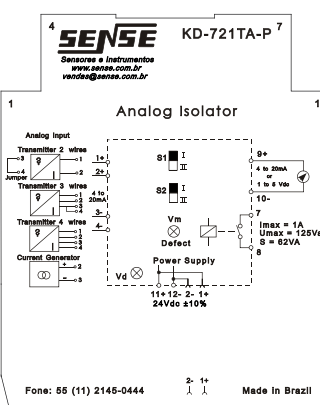
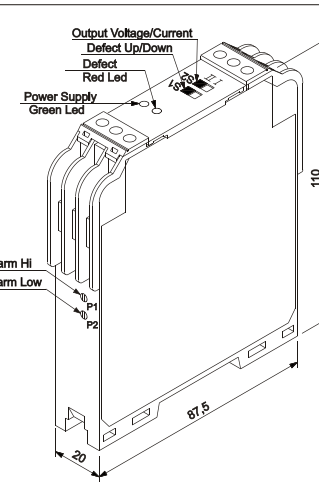
	Model	Diagram	Mechanical Drawing
RS3,5-N/SX	 The slot type sensor "U" is especially suitable for generating pulse to measure rotation. Must be used in conjunction with a gear wheel.	 NAMUR SENSOR BN BU 8Vdc (+) (-) AMPLIFIER Exi	 10 5 19 3.5 15 10

GALVANIC ISOLATORS - KD

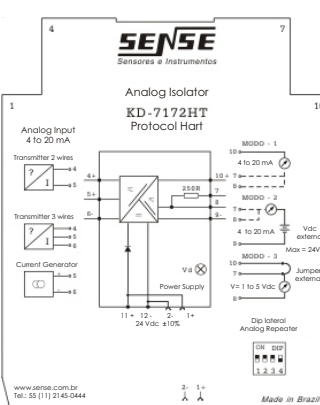
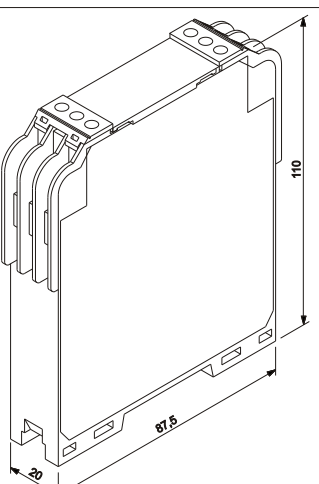
ISOLATOR FOR TRANSMITTER - Single channel without relay alarm

	Model	Input	Diagram	Mechanical Drawing
KD-721T/24Vdc (-P)	 Galvanically isolates the transmitters signal of 2, 3 or 4 wires and current generators against voltage surges.	0 - 20mA or 4 - 20mA.	 Diagram showing the internal circuitry of the KD-721T-P Analog Isolator, including the analog input, current generator, and power supply sections.	 Mechanical drawing showing the dimensions (110mm height, 87.5mm width, 20mm depth) and terminal locations for Output Voltage/Current, Power Supply, and Green Led.
		4 - 20mA or 0 - 5Vdc.		

ISOLATOR FOR TRANSMITTER - Single channel with relay alarm

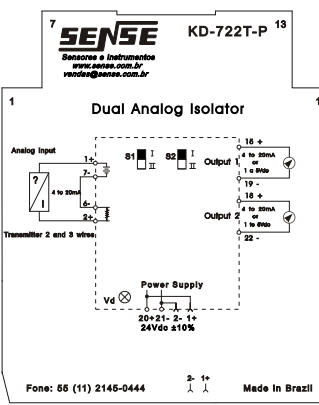
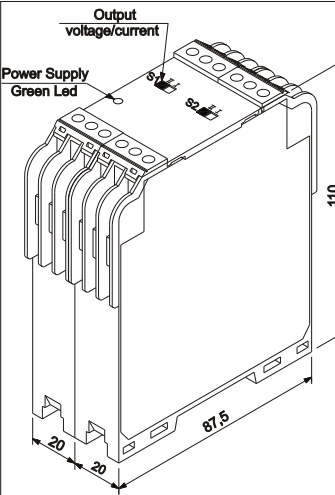
	Model	Input	Diagram	Mechanical Drawing
KD-721TA/24Vdc (-P)	 Galvanically isolates the transmitters signal of 2, 3 or 4 wires and current generators against voltage surges.	0 - 20mA or 4 - 20mA.	 Diagram showing the internal circuitry of the KD-721TA-P Analog Isolator, including the analog input, current generator, power supply, and alarm output sections.	 Mechanical drawing showing the dimensions (110mm height, 87.5mm width, 20mm depth) and terminal locations for Output Voltage/Current, Defect Up/Down, Red Led, Power Supply, Green Led, Alarm Hi, and Alarm Low.
		4 - 20mA or 0 - 5Vdc 1 alarm output.		

ISOLATOR FOR TRANSMITTER - Sink or Source Output

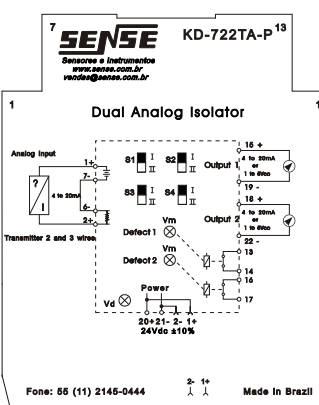
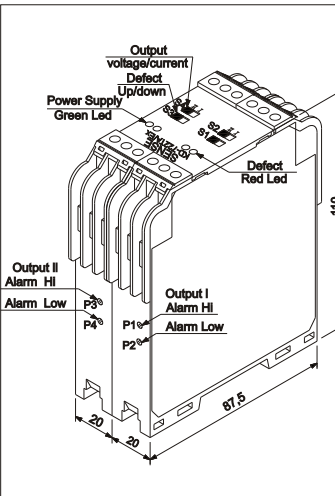
	Model	Input	Diagram	Mechanical Drawing
KD-7172HT (-P)	 Isolator/ analog drive with triple galvanic isolation and power supply at 24Vdc. It has output source to the analog input common PLC or sink, for transmitters inputs (powered).	Analog transmitter or signal 0 - 20mA or 4-20mA.	 Diagram showing the internal circuitry of the KD-7172HT Analog Isolator, including the analog input, current generator, power supply, and output sections.	 Mechanical drawing showing the dimensions (110mm height, 87.5mm width, 20mm depth) and terminal locations.
		Configurable for: current: 0 - 20mA 4 to 20mA voltage: 0 - 5Vdc 1to 5Vdc		

GALVANIC ISOLATORS - KD

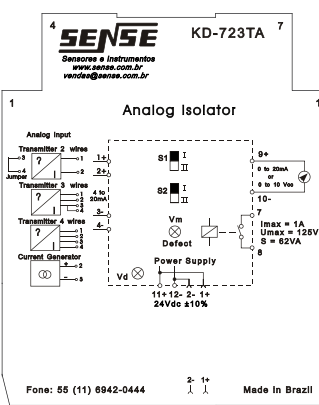
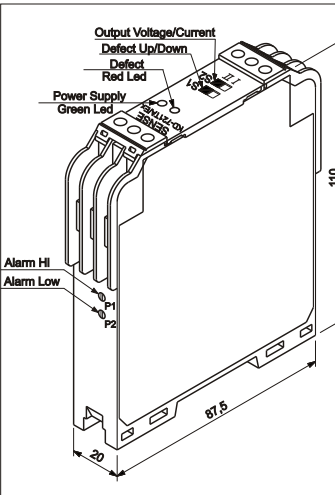
ISOLATOR FOR TRANSMITTER - Dual channel without relay alarm

Model	Input	Diagram	Mechanical Drawing
KD-722T/24Vdc (-P)  Galvanically isolates the transmitters sign of 2, 3 or 4 wires and current generators against voltage surges.	0 - 20mA or 4 - 20mA. Output Two independent outputs current: 0 - 20mA 4 - 20mA voltage: 0 - 5 Vdc 1 - 5 Vdc	 Fone: 55 (11) 2145-0444 2- 1+ Made In Brazil	

ISOLATOR FOR TRANSMITTER - Dual channel with relay alarm

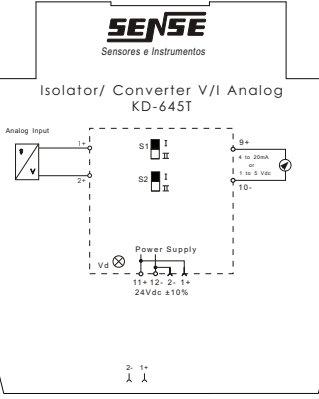
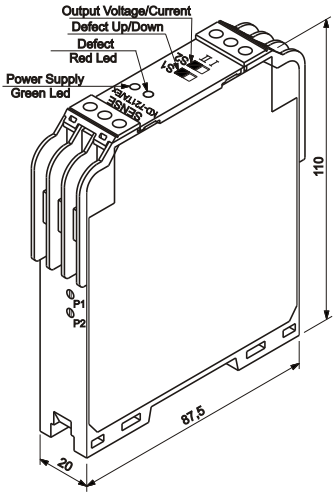
Model	Input	Diagram	Mechanical Drawing
KD-722TA/24Vdc (-P)  Galvanically isolates the transmitters sign of 2, 3 or 4 wires and current generators against voltage surges.	0 - 20mA or 4 - 20mA. Output Two independent outputs current: 0 - 20mA 4 - 20mA voltage: 0 - 5 Vdc 1 - 5 Vdc 1 alarm output	 Fone: 55 (11) 2145-0444 2- 1+ Made In Brazil	

ISOLADOR PARA TRANSMISSOR - Single channel with realy alarm

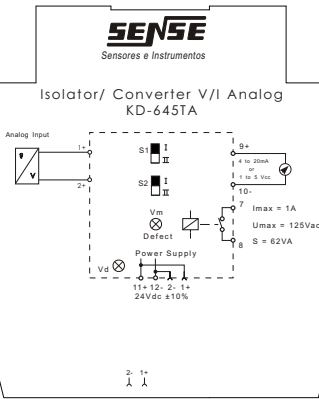
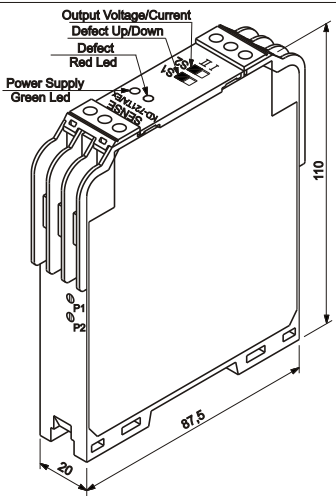
Model	Input	Diagram	Mechanical Drawing
KD-723TA/24Vdc (-P)  Galvanically isolates the transmitters sign of 2, 3 or 4 wires and current generators against voltage surges.	0 - 20mA or 4 - 20mA. Output Configurable for: current: 0 - 20mA 4 - 20mA voltage: 1 - 5 Vdc 0 - 10Vdc 1 alarm output	 Fone: 55 (11) 8942-0444 2- 1+ Made In Brazil	

GALVANIC ISOLATORS - KD

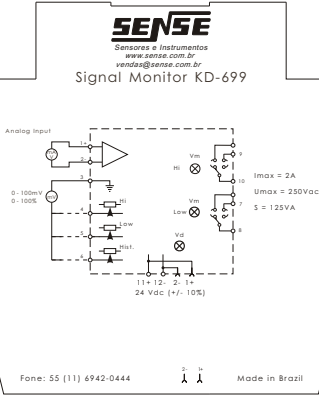
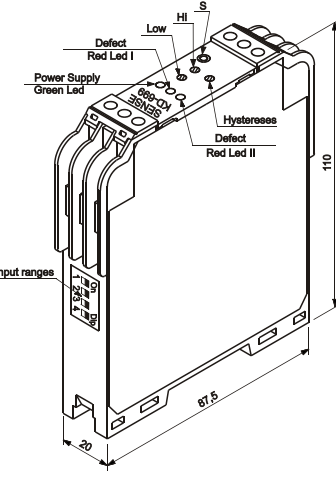
VOLTAGE CONVERTER

	Model	Input	Diagram	Mechanical Drawing
KD-645T/24Vdc (-P)		0 - 10Vdc Note: See other voltage ranges.		
		Output 4 - 20mA or 1-5Vdc.		

VOLTAGE CONVERTER WITH RELAY ALARM

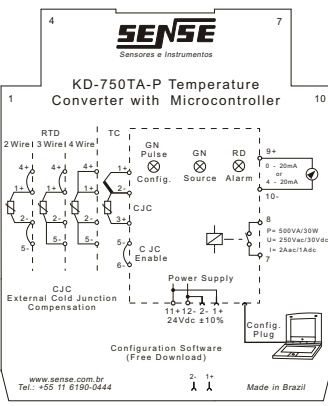
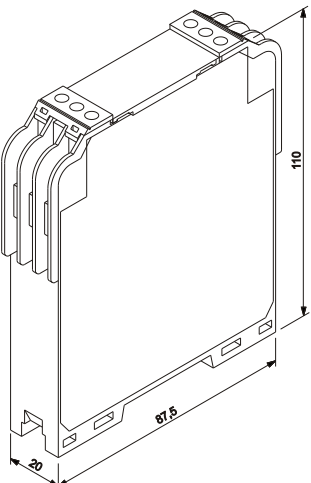
	Model	Input	Diagram	Mechanical Drawing
KD-645TA/24Vdc (-P)		0 - 10Vdc Note: See other voltage ranges.		
		Output 4 - 20mA or 1-5Vdc 1 alarm output.		

SIGNS MONITOR WITH RELAY ALARM

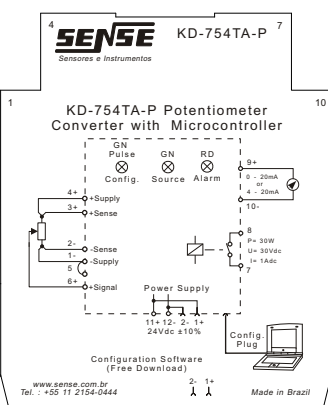
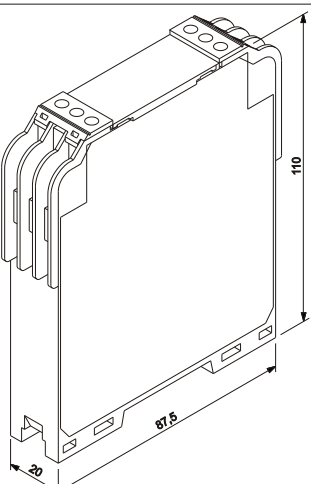
	Model	Input	Diagram	Mechanical Drawing
KD-699/24Vdc (-P)		voltage: 0 - 10V 2 - 10V 0 - 5V 1 - 5V current: 0 - 20mA 4 - 20mA		
		Output Two alarm outputs programmable for NO or NC.		

GALVANIC ISOLATORS - KD

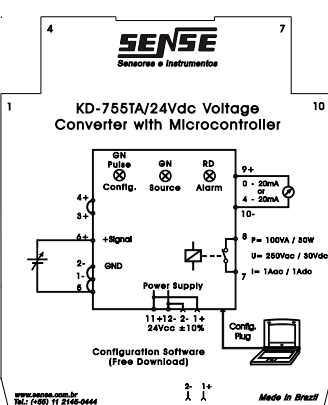
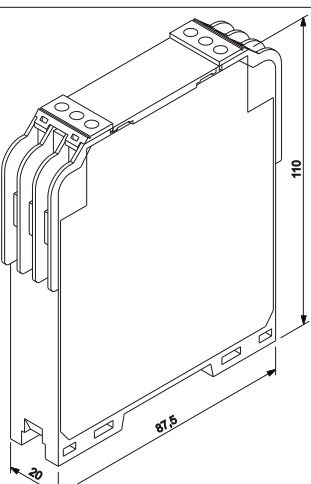
TEMPERATURE CONVERTER WITH ALARM - Configurable by software

	Model	Input	Diagram	Mechanical Drawing
KD-750TA/24Vdc	 Temperature converter with triple galvanic isolation and power at 24Vdc. Fully configurable via software (free download) for easy handling.	Thermocouple or thermoresistance.		
		Output		
		Configurable for 0 to 20mA or 4 to 20mA 1 alarm output.		

CONVERTER ISOLATOR POTENTIOMETER / VOLTAGE - Configurable by software

	Model	Input	Diagram	Mechanical Drawing
KD-754TA/24Vdc	 Converts a voltage or potentiometer signal to an analog signal of current. Operates with potentiometer resistance of 120Ω to 5000Ω or voltage generator of 0 to 10Vdc.	Potentiometer 120Ω to 5000Ω or voltage generator of 0 to 10Vdc.		
		Output		
		Configurable for 0 to 20mA or 4 to 20mA 1 alarm output.		

CONVERTER ISOLATOR VOLTAGE / CURRENT - Configurable by software

	Model	Input	Diagram	Mechanical Drawing
KD-755TA/24Vdc	 Voltage to current converter with triple galvanic isolation and power supply in 24Vdc. Fully configurable by software (free download) of easy handling.	Voltage input of 0 to 20Vdc Note: see other voltage ranges.		
		Output		
		Configurable for 0 to 20mA or 4 to 20mA 1 alarm output.		

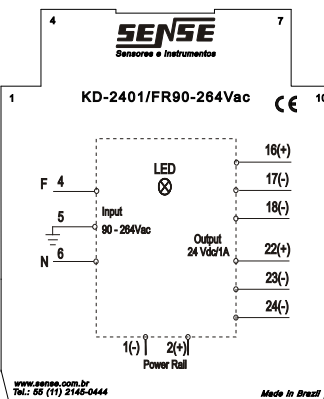
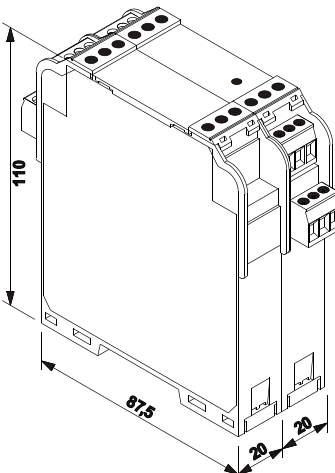
INDUSTRIAL SUPPLIES

- Wide range of input supply voltage and models for three phase power supply.
- Output: 5Vdc / 10Vdc / 12Vdc / 24Vdc.
- Models for: 1A / 2A / 2,5A / 5A / 10A / 20A / 40A.
- Versions: AS-Interface network 30 Vdc / 4A. Devicenet and Profibus DP network.
- Power factor correction.
- Outlet connection in parallel (redundant).
- Fine adjustment of the output voltage.
- Protection against overload and short-circuit.
- Models with alarm signal.
- Ultra-compact dimensions.
- DIN rail mounting.

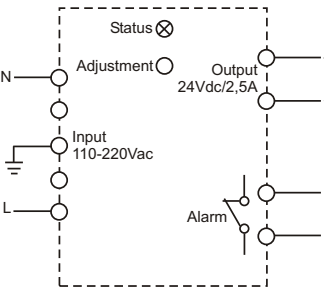
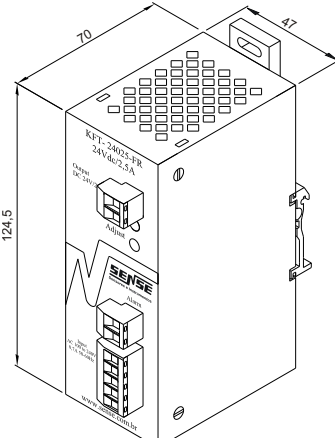


POWER SUPPLY - 24Vdc

POWER SUPPLY 24Vdc - 1A

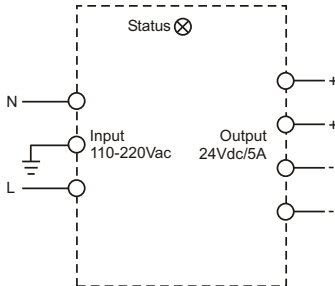
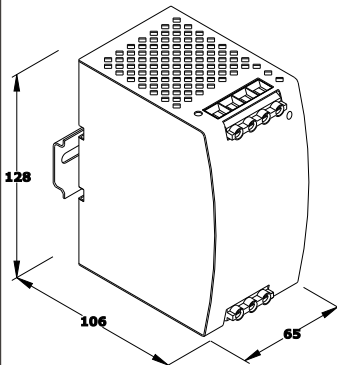
	Model	Input	Diagram	Mechanical Drawing
KD-2401/FR90-264Vac	 Switching power supply, compact size and excellent stability and regulation.	90 - 264Vac.		
		Output 24Vdc - 1A.		

FONTE DE ALIMENTAÇÃO REDUNDANTE 24Vcc - 2,5A

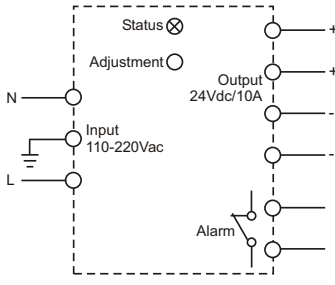
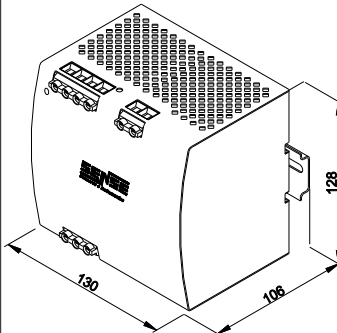
	Model	Input	Diagram	Mechanical Drawing
KFT-24025R/110-220Vac	 Switching power supply, compact size and excellent stability and regulation. Have redundant output for connection in parallel.	110 - 220Vca.		
		Output Adjustable from 22 to 28Vdc - 2,5A.		

POWER SUPPLY - 24Vdc

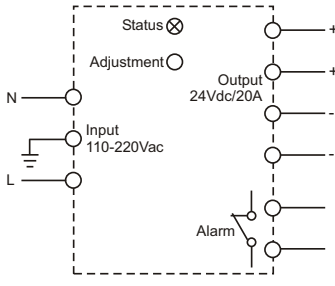
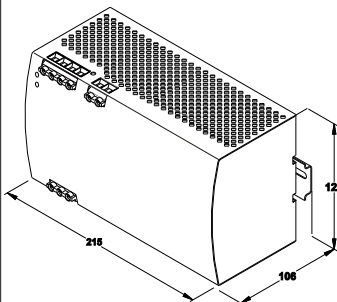
REDUNDANT POWER SUPPLY 24Vdc - 5A

	Model	Input	Diagram	Mechanical Drawing
KFT-2405R/110-220Vac	 Switching power supply, compact size and excellent stability and regulation. Have redundant output for connection in parallel.	110 - 220Vac.		
		Output 24Vdc - 5A.		

REDUNDANT POWER SUPPLY 24Vdc - 10A

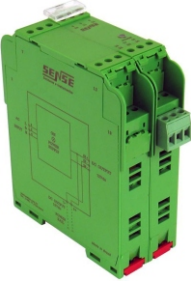
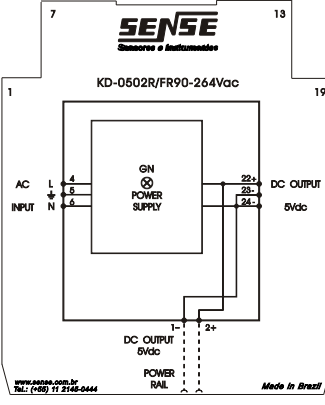
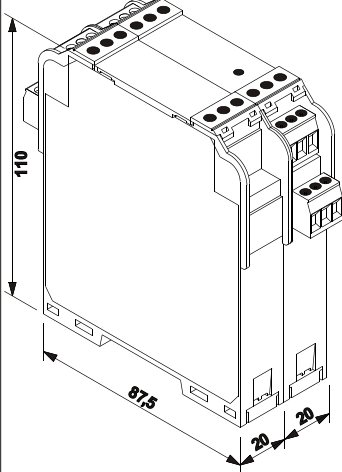
	Model	Input	Diagram	Mechanical Drawing
KFT-2410R/110-220Vac	 Switching power supply, compact size and excellent stability and regulation. Have redundant output for connection in parallel.	110 - 220Vac.		
		Output Adjustable from 22 to 28Vdc - 10A.		

FONTE DE ALIMENTAÇÃO REDUNDANTE 24Vcc - 20A

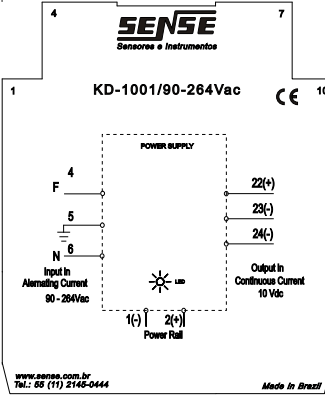
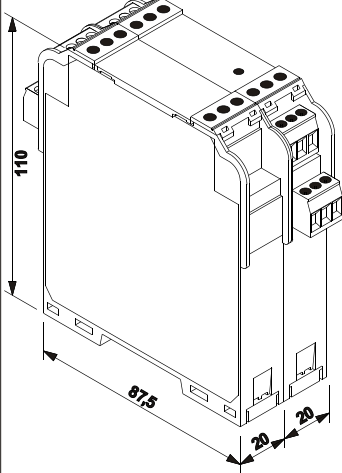
	Model	Input	Diagram	Mechanical Drawing
KFT-2420R/220Vac	 Switching power supply, compact size and excellent stability and regulation. Have redundant output for connection in parallel.	220Vac.		
		Output Adjustable from 22 to 28Vdc - 20A.		

POWER SUPPLY - SPECIAL

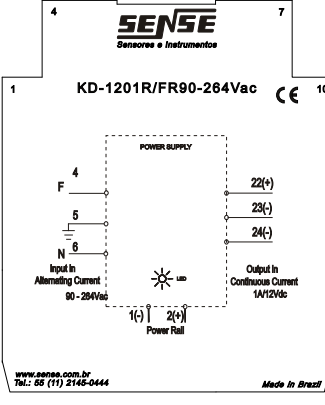
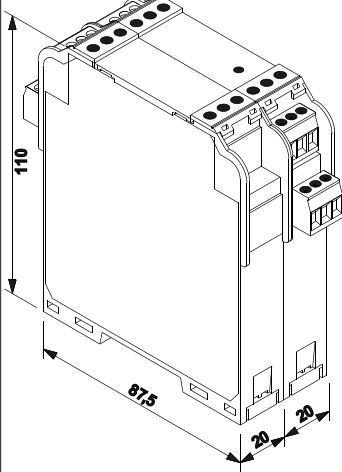
REDUNDANT POWER SUPPLY 5Vdc - 2A

	Model	Input	Diagram	Mechanical Drawing
KD-0502R/FR90-264Vac	 Switching power supply, compact size and excellent stability and regulation. Have redundant output for connection in parallel.	90 - 264Vac.		
		Output		
		5Vdc - 2A.		

POWER SUPPLY 10Vdc - 1A

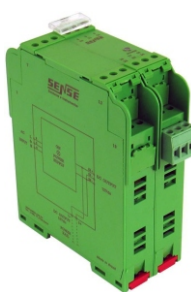
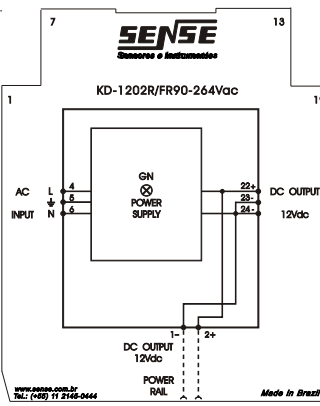
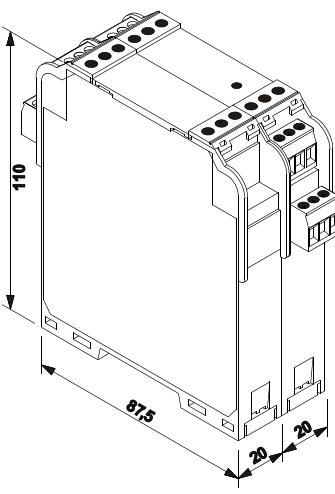
	Model	Input	Diagram	Mechanical Drawing
KD-1001/FR90-264Vac	 Switching power supply, compact size and excellent stability and regulation.	90 - 264Vac.		
		Output		
		10Vdc - 1A.		

POWER SUPPLY 12Vdc - 1A

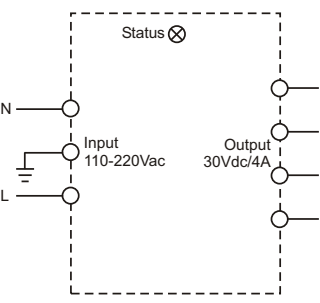
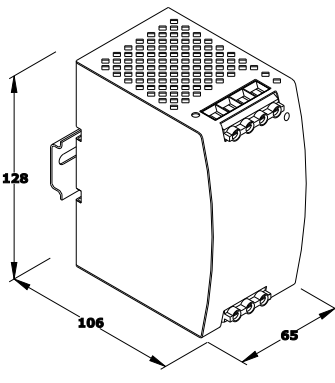
	Model	Input	Diagram	Mechanical Drawing
KD-1201/FR90-264Vac	 Switching power supply, compact size and excellent stability and regulation.	90 - 264Vac.		
		Output		
		12Vdc - 1A.		

POWER SUPPLY - SPECIAL

REDUNDAT POWER SUPPLY 12Vdc - 2A

	Model	Input	Diagram	Mechanical Drawing
KD-1202R/FR90-264Vac		90 - 264Vac.		
	Switching power supply, compact size and excellent stability and regulation. Have redundant output for connection in parallel.	12Vdc - 2A.		

POWER SUPPLY FOR AS-INTERFACE NETWORK 30Vdc - 4A

	Model	Input	Diagram	Mechanical Drawing
KFT-3004R/110-220Vac		110 - 220Vac.		
	Special power supply for AS-Interface network. Should be used as a modulator ASI-KD-EF.	30Vdc - 4A.		

Our Addresses

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PACNET - Com. Eletro Eletrônicos LTDA - GO
Fone: (62) 3207-8926
WALMAR - Representações Técnicas LTDA -
MG Fone: (31) 3389-2500