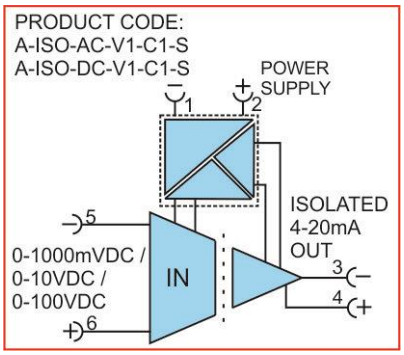
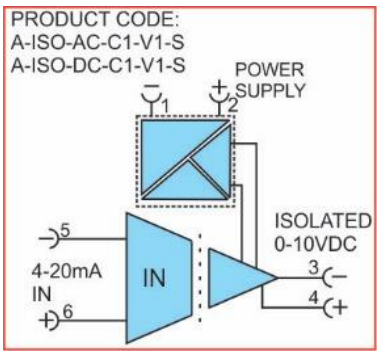
SIGNAL ISOLATORS
ISOLATING CURRENT TRANSMITTER / REPEATER / ISOLATION BARRIER





SIGNAL ISOLATOR: ISOLATING VOLTAGE TO CURRENT CONVERTER TRANSMITTER, ISOLATING CURRENT TO VOLTAGE CONVERTER
PRODUCT CODE:
VOLTAGE TO CURRENT: A-ISO-AC-V1-C1-S, A-ISO-DC-V1-C1-S
MILLIVOLT TO CURRENT: A-ISO-AC-MV-C1-S, A-ISO-DC-MV-C1-S
HIGH VOLTAGE TO CURRENT: A-ISO-AC-VH-C1-S, A-ISO-DC-VH-C1-S
ISOLATING CURRENT TO VOLTAGE CONVERTER: A-ISO-AC-C1-V1-S, A-ISO-DC-C1-V1-S
INPUT: 0-10VAC (V TO I CONVERTER), 4-20mA (I TO V CONVERTER)
OUTPUT: ISOLATED 4-20mA (V TO I CONVERTER), ISOLATED 0-10VAC (I TO V CONVERTER)
POWER SUPPLY: CHOICE OF AC OR DC POWER SUPPLY
DC POWER SUPPLY: 16VDC TO 36 VDC, RECOMMENDED - 24VDC
AC POWER SUPPLY: 85VAC TO 265VAC, 50Hz / 60Hz
THRESHOLD VOLTAGE OF THE ISOLATION BARRIER: 5KV RMS

SIGNAL ISOLATOR SPECIFICATIONS: PRODUCT CODE: A-ISO-AC-V1-C1-S, A-ISO-DC-V1-C1-S, A-ISO-AC-C1-V1-S, A-ISO-DC-C1-V1-S

ENCLOSURE	:	MATERIAL OF CONSTRUCTION – ABS / NYLON, RECTANGULAR SHAPE, DIN RAIL MOUNTED
ENCLOSURE DIMENSIONS	:	W: 22.5mm
INGRESS PROTECTION	:	ENCLOSURE IS IP 40, SHOCK AND CONTAMINATION PROOF
FLAMMABILITY	:	FOR ENCLOSURE - CLASS V0 ACCORDING TO UL 94.
AMBIENT TEMP.	:	-20°C TO 55°C
POWER CONSUMPTION	:	1W MAXIMUM
CHOICE OF AC OR DC POWER SUPPLY	:	DC: 16 TO 36 VDC, WE RECOMMEND 24 VDC STANDARD POWER SUPPLY. AC: 85 TO 265VAC, 50 / 60HZ, 110 OR 230VAC STANDARD PS RECOMMENDED.
AUXILIARY POWER SUPPLY	:	NOT AVAILABLE IN THIS MODEL
POWER SUPPLY ISOLATION	:	3 POINT, AC OR DC POWER SUPPLY INTERNALLY ISOLATED FROM INPUT AND OUTPUT PS.
BARRIER VOLTAGE	:	THRESHOLD VOLTAGE OF ISOLATION BARRIER IS 5KV RMS
ISOLATION TYPE	:	OPTICAL
INPUT SIGNAL	:	**VOLTAGE TO CURRENT: 0-10VDC, 0-1000mVDC, 0-100VDC** **CURRENT TO VOLTAGE CONVERTER: 4-20mA**
LOOP VOLTAGE DROP	:	5VDC DROP ACROSS INPUT, FOR 4-20MA INPUT CIRCUITS.
PROTECTIONS	:	REVERSE LOOP PROTECTION FOR DC POWER SUPPLY, EMI & RFI FILTERS FOR INPUT SIGNAL
OUTPUT SIGNAL	:	**VOLTAGE TO CURRENT: 4-20mA** **CURRENT TO VOLTAGE CONVERTER: 0-10VDC**
MAX OUTPUT LOAD	:	600 OHMS PERMISSIBLE RESISTIVE LOAD FOR CURRENT OUTPUT
MAX NON-LINEARITY	:	±0.1% WITH RESPECT TO FULL SCALE RANGE AT MAXIMUM AMBIENT TEMPERATURE.
OUTPUT CALIBRATION	:	**A-ISO** RANGE OF PRODUCTS: ON FASCIA, ZERO, AND SPAN ADJUST BY TRIM POT. **A10ISO** RANGE OF PRODUCTS: ON FASCIA, ZERO, AND SPAN ADJUST BY KEYBOARD