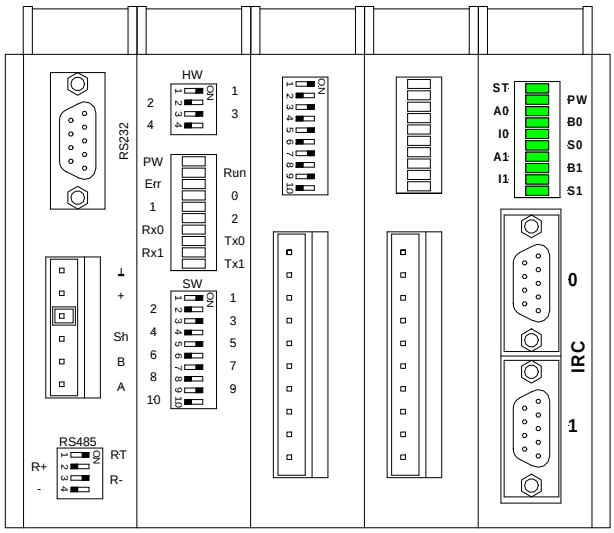
Industrial
Control Systems

AD-IRC2

2 Channels for IRC Inputs

- **2 galvanically separated channels**
- **For TTL or 24V sensors, one-pole or deferential connection**
- **A, B or I signals**
- **Input status and SW reset indication by green LED**
- **Self-stacking connection to the AD-CPU167 unit, DIN rail mounting**



TECHNICAL DATA

Number of inputs	2 sensors
Common lead	GND
Max. input voltage	30 V DC
Galvanic separation	Yes *)
Counter range	32 bits
Max. input frequency	1 MHz
Module position in system	No limitation
Max. number of modules	8
Max. internal source consumption	350 mA
Signal connection	CANON 9 connector, female
Mounting	35 mm DIN rail
Operating temperature	0 to 70 °C
Max. ambient humidity	< 95 % non-condensing
Weight	200 g
Dimensions (w × h × d)	25 × 104 × 96 mm

Note: This module is supported by the NOS operating system in connection with AD-CPU167 main unit only.

*) Insulation strength 500 V AC / 1 minute, galvanic separation may not be used for safe and unsafe parts separation.

ORDERING INFORMATION

AD-IRC2	2 IRC inputs TTL/24 V module, data sheet, warranty card

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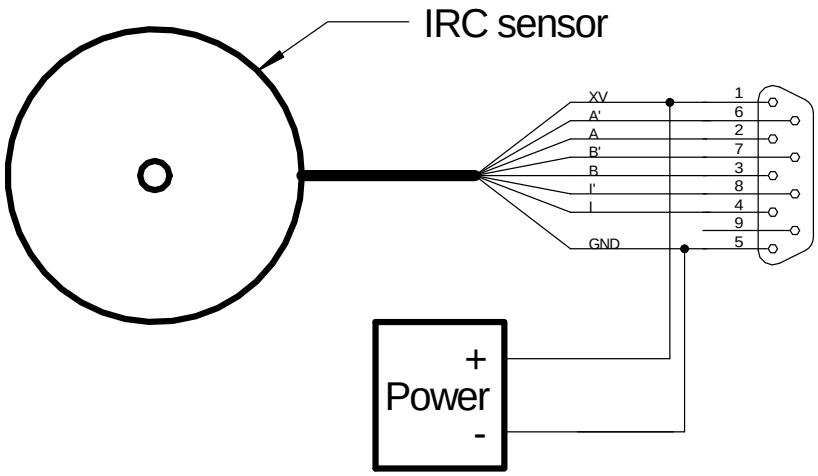
SIGNAL ASSIGNMENT ON THE CANON CONNECTOR

PIN	Label
1	XV
2	A
3	B
4	I
5	GND

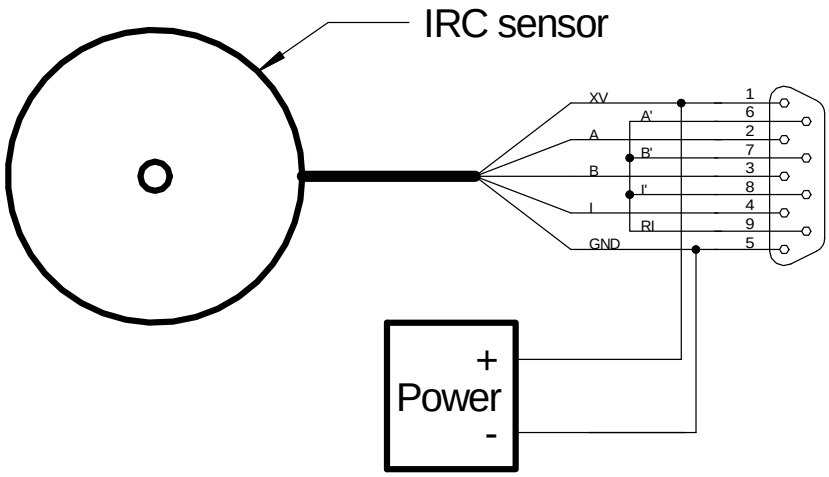
PIN	Label
6	A‘
7	B‘
8	I‘
9	RI

A, B and Z are direct signals, A‘, B‘ and Z‘ are negate signals. If sensor with outputs towards the ground is used, then all negate signals are connected to the RI terminal, which serves as artificial centre.

WIRING EXAMPLE OF SENSOR WITH DIFERENCIAL OUTPUTS



WIRING EXAMPLE OF SENSOR WITH OUTPUTS TOWARDS THE GROUND



Power supply is choosing according to the type of IRC sensor in range between 5 to 24 V DC.

MOUNTING INSTRUCTIONS

Connect the supple line shield to the PE terminal on switchboard input.