

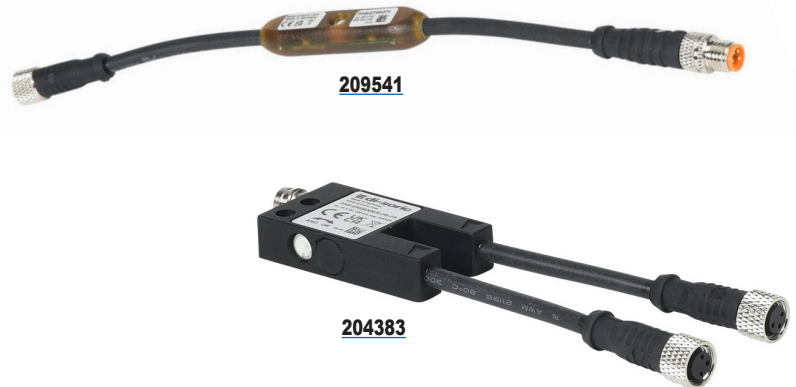
di-soric Patch Cable Signal Converters

Overview

The di-soric patch cable signal converters are designed for easy retrofitting, are mountable inline with sensors, and have a compact design. Models are available with pulse stretching, N.O./N.C. inversion, PNP/NPN logic shifting, AND/OR gate, or antivalence function. These devices can be stacked in series to combine multiple signal conversions.

Features

- Suitable for all standard sensors
- Compact design
- Can be retrofitted quickly and easily
- Series connection available
- High temperature use range
- IP67 protection rating
- 10–35 VDC operating voltage



Patch Cable Signal Converters										
Part Number	Reference Number	Price	Function	Connector Types	Switching Frequency	Current Capacity	No-load Current	Housing Material	Operating Temperature	Drawing Link
209541	TKHM-Z/TSM-Z/T4	\$27.00	Pulse stretcher PNP	4-pin M8 axial female 4-pin M8 axial male	500 Hz	200 mA	20 mA	Plastic	-20 to +70 °C [-4 to +158 °F]	PDF
202855	TKHM-Z/TSM-Z/P4	\$48.00	Antivalence PNP	3-pin M8 axial female 4-pin M8 axial male	3500 Hz					PDF
202857	TKHM-Z/TSM-Z/T	\$27.00	Pulse stretcher PNP	3-pin M8 axial female 3-pin M8 axial male	500 Hz					PDF
203161	TKHM-Z/TSM-Z/UN	\$27.00	NPN to PNP	3-pin M8 axial female 3-pin M8 axial male	5000 Hz					PDF
202853	TKHM-Z/TSM-Z/I	\$27.00	Inverter PNP	3-pin M8 axial female 3-pin M8 axial male	3500 Hz					PDF
202851	TKHM-Z/TSM-Z/U	\$27.00	PNP to NPN	3-pin M8 axial female 3-pin M8 axial male	5000 Hz					PDF
202856	VKHM-Z/VSM-Z/P4	\$39.00	Antivalence PNP	4-pin M12 axial female 4-pin M12 axial male	3500 Hz					PDF
203162	VKHM-Z/VSM-Z/UN	\$27.00	NPN to PNP	4-pin M12 axial female 3-pin M12 axial male	5000 Hz					PDF
202854	VKHM-Z/VSM-Z/I	\$27.00	Inverter PNP	4-pin M12 axial female 3-pin M12 axial male	3500 Hz					PDF
202852	VKHM-Z/VSM-Z/U	\$27.00	PNP to NPN	4-pin M12 axial female 3-pin M12 axial male	5000 Hz					PDF
202858	VKHM-Z/VSM-Z/T	\$27.00	Pulse stretcher PNP	4-pin M12 axial female 3-pin M12 axial male	500 Hz					PDF
T-coupler Models										
204383	AV2-UND/ODER-PS-TS	\$78.00	AND/OR PNP	(2) 3-pin M8 axial female 3-pin M8 axial male	—	—	14 mA	Die-cast zinc	-25 to 70 °C [-13 to +158 °F]	PDF
204382	AV2-UND/ODER-PS-IBS	\$78.00	AND/OR PNP	(2) 3-pin M12 axial female 3-pin M12 axial male	—	—	14 mA	Die-cast zinc	-25 to 70 °C [-13 to +158 °F]	PDF

Antivalence: Takes a standard sensor output and provides two switching outputs that operate in an inverse, or opposite relationship to each other. Also referred to as complementary outputs.

PNP to NPN: Takes the output of a PNP sensor and changes it to an NPN output.

NPN to PNP: Takes the output of an NPN sensor and changes it to a PNP output.

Inverter: Inverts a sensors output state, for example changes a Normally Open (N.O.) output to a Normally Closed (N.C.) or vice versa.

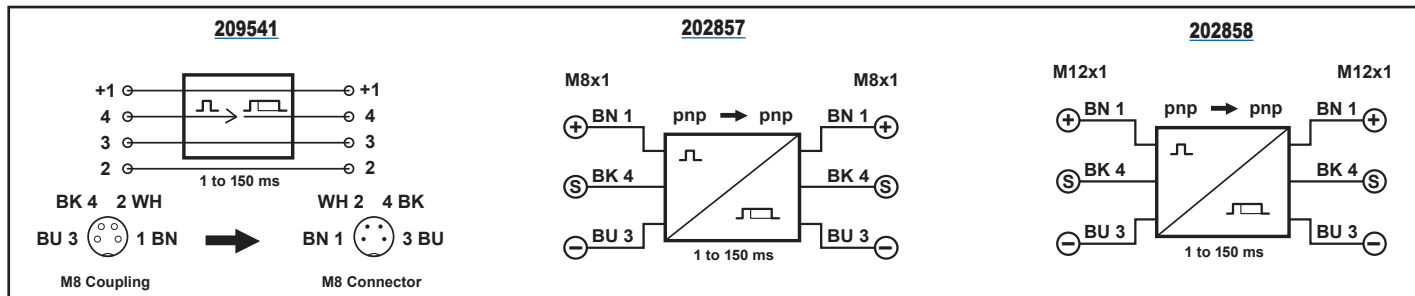
Pulse Stretcher: Extends the duration of a short input pulse, ensuring it meets the minimum length required for reliable detection and processing by subsequent systems (such as a PLC).

AND/OR: User selectable function, takes inputs from 2 sensors and outputs one signal depending on if both sensors are active (AND) or either sensor is active (OR).

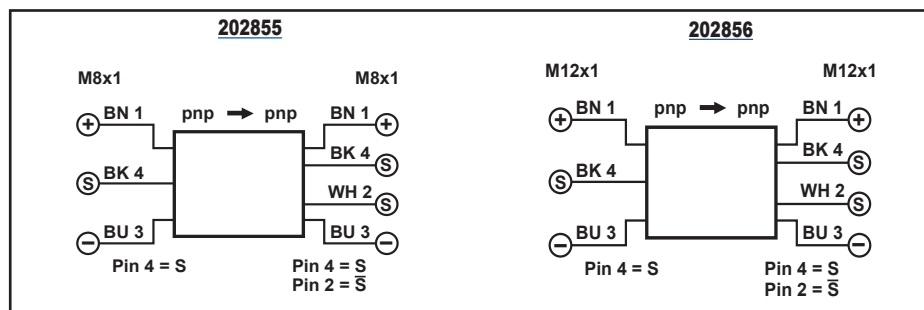
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Wiring Diagrams

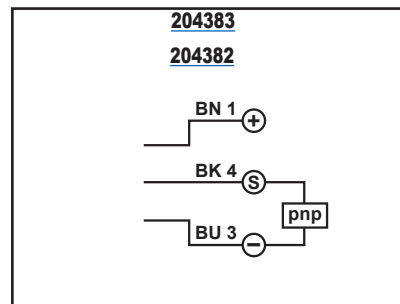
Pulse Stretch Models



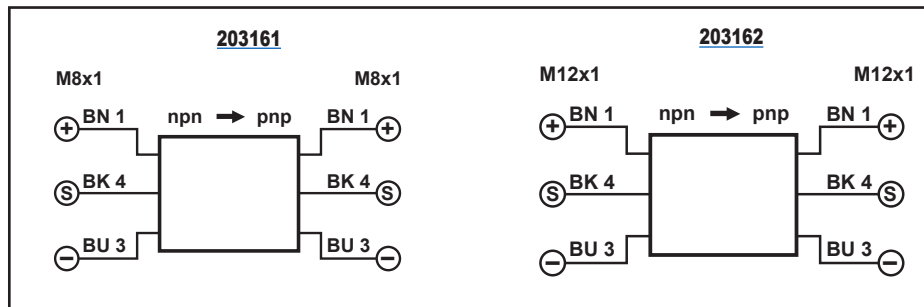
Antivalence Models



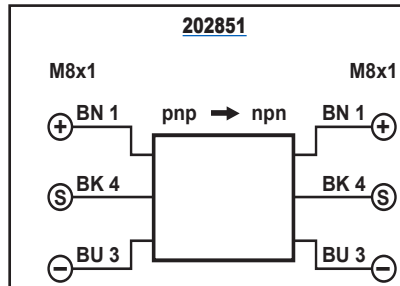
AND/OR Models



NPN to PNP Models



PNP to NPN Models



Inverter Models

