

PNP-NPN Converter

M12 × 1; 4-pin

BG2V1P-N-2M

Part Number



Technical Data

Electrical Data

Supply Voltage	10...30 V DC
Current Consumption (U _b = 24 V)	< 2 mA
Switching Output/Switching Current	200 mA
Switching Frequency	5 kHz
Response Time	100 µs
Residual Current Switching Output	< 50 µA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes

Mechanical Data

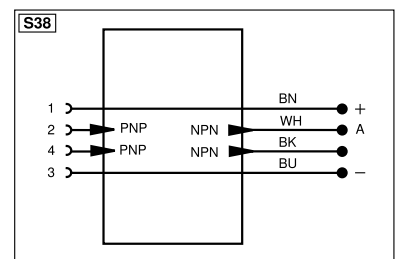
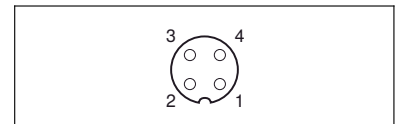
Connection 1	Socket, straight
Connection mode 1	M12 × 1, 4-pin
Connection 2	stripped
Torque	M12: 0,6 Nm
Cable Length	2 m
Outer diameter (d)	5 mm
Wire cross-section	0,34 mm ²
Degree of Protection	IP67
Temperature Range	-10...60 °C
Cable Jacket Material	PVC
Material Wire Insulation	PVC
Material Sleeve Nut	CuZn, nickel-plated

Packaging unit 1 Piece

Connection Diagram No. **S38**

Connection Equipment No. **2**

● High protection class IP67



Legend					
+	Supply Voltage +	nc	Not connected	ENB _{RS422}	Encoder B/Ĕ (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ů	Test Input inverted	ENb	Encoder B
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
V	Contamination/Error Output (NO)	O	Analog Output	AOK	Digital output OK
Ų	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
T	Teach Input	AMV	Valve Output	QLT	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	±	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
IO-Link	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
QSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink
ENo RS422	Encoder 0-pulse 0/Ĕ (TTL)	EDM	Contact monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	ENAS422	Encoder A/Ĕ (TTL)		

