

# Connection Cable

M12 × 1; 4-pin

## BG2SG2V3-06M

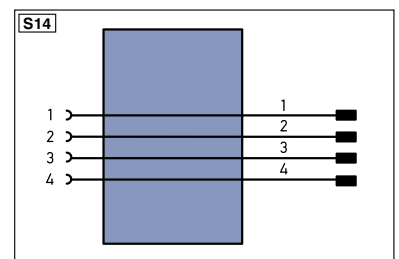
Part Number



### Technical Data

Mechanical Data	
Connection 1	Socket, straight
Connection mode 1	M12 × 1, 4-pin
Connection 2	Plug, straight
Connection mode 2	M12 × 1, 4-pin
Torque	M12: 0,5 Nm
Cable Length	60 cm
Cable Diameter	4,7 mm
Wire cross-section	0,34 mm <sup>2</sup>
Degree of Protection	IP67
Temperature Range	-25...80 °C
Cable Jacket Material	PUR
Material Wire Insulation	PP
Material Sleeve Nut	CuZn, nickel-plated
Halogen-free	yes
Drag Chain Suitable	yes
Bending radius (fixed installation)	> 5 × d
Bending radius (used in motion)	> 10 × d
Travel speed (with 5 m horizontal travel distance)	≤ 3,3 m/s
Acceleration	≤ 5 m/s <sup>2</sup>
Bending cycles	> 2000000
Packaging unit	1 Piece
Connection Diagram No.	
Connection Equipment No.	
	<b>2</b> <b>2s</b>

- Plug M12 × 1, straight
- PUR, halogen free
- Socket M12 × 1, straight



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	EN <sup>A</sup> EN <sup>Az</sup>	Encoder A/A (TTL)
-	Supply Voltage 0 V	nc	not connected	EN <sup>B</sup> EN <sup>Bz</sup>	Encoder B/B (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	EN <sup>A</sup>	Encoder A
A	Switching Output (NO)	Ü	Test Input inverted	EN <sup>B</sup>	Encoder B
Ä	Switching Output (NC)	W	Trigger Input	AMIN	Digital output MIN
V	Contamination/Error Output (NO)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
∇	Contamination/Error Output (NC)	O	Analog Output	AKK	Digital output OK
E	Input (analog or digital)	O-	Ground for the Analog Output	SY in	Synchronization In
T	Teach Input	BZ	Block Discharge	SY OUT	Synchronization OUT
Z	Time Delay (activation)	AWV	Valve Output	Out	Brightness output
S	Shielding	a	Valve Control Output +	M	Maintenance
RxD	Interface Receive Path	b	Valve Control Output 0 V	rsv	reserved
TxD	Interface Send Path	SY	Synchronization	Wire Colors according to IEC 60757	
RDY	Ready	SY-	Ground for the Synchronization	BK	Black
GND	Ground	E+	Receiver-Line	BN	Brown
CL	Clock	S+	Emitter-Line	RD	Red
E/A	Output/Input programmable	±	Grounding	OG	Orange
IO-Link	IO-Link	S <sub>R</sub> R	Switching Distance Reduction	YE	Yellow
PoE	Power over Ethernet	Rx+/-	Ethernet Receive Path	GN	Green
IN	Safety Input	Tx+/-	Ethernet Send Path	BU	Blue
OSSD	Safety Output	B <sub>AB</sub>	Interfaces-Bus A(+)/B(-)	VT	Violet
Signal	Signal Output	La	Emitted Light disengageable	GY	Grey
BI-D+/-	Ethernet Gigabit bidirect. data line (A-D)	Mag	Magnet activation	WH	White
EN <sup>0-pulse</sup>	Encoder 0-pulse 0-0 (TTL)	RES	Input confirmation	PK	Pink
		EDM	Contactor Monitoring	GNYE	Green/Yellow

Specifications are subject to change without notice