Connection Cable
M8 × 1; 4-pin - M12 × 1; 4-pin

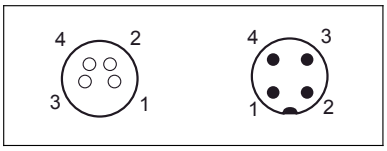
wenglor
the innovative family

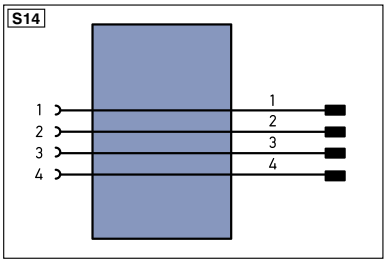
BG7SG2V1-2M
Part Number

Technical Data

Mechanical Data	
Connection 1	Socket, straight
Connection mode 1	M8 × 1, 4-pin
Connection 2	Plug, straight
Connection mode 2	M12 × 1, 4-pin
Cable Length	2 m
Diameter Cable	5 mm
Wire cross-section	0,25 mm²
Degree of Protection	IP67
Temperature Range	-25...90 °C
Material Cable Jacket	PVC
Material Wire Isolation	PVC
Material Cap Nut	CuZn
Packaging unit	1 Piece
Connection Diagram No.	S14
Connection Technology No.	7 2s

- **Plug M12 × 1, straight**
- **Socket M8 × 1, straight**





Legend

+	Supply Voltage +		PT	Platinum measuring resistor		ENA	Encoder A
–	Supply Voltage 0 V		nc	not connected		ENB	Encoder B
~	Supply Voltage (AC Voltage)		U	Test Input		AMIN	Digital output MIN
A	Switching Output	(NO)	Ū	Test Input inverted		AMAX	Digital output MAX
Ā	Switching Output	(NC)	W	Trigger Input		AOK	Digital output OK
V	Contamination/Error Output	(NO)	O	Analog Output		SY In	Synchronization In
V̄	Contamination/Error Output	(NC)	O–	Ground for the Analog Output		SY OUT	Synchronization OUT
E	Input (analog or digital)		BZ	Block Discharge		OLT	Brightness output
T	Teach Input		AMV	Valve Output		M	Maintenance
Z	Time Delay (activation)		a	Valve Control Output +			
S	Shielding		b	Valve Control Output 0 V			
RxD	Interface Receive Path		SY	Synchronization			
TxD	Interface Send Path		E+	Receiver-Line			
RDY	Ready		S+	Emitter-Line			
GND	Ground		⏚	Grounding			
CL	Clock		SnR	Switching Distance Reduction			
E/A	Output/Input programmable		Rx+/–	Ethernet Receive Path			
	IO-Link		Tx+/–	Ethernet Send Path			
PoE	Power over Ethernet		Bus	Interfaces-Bus A(+)/B(–)			
IN	Safety Input		La	Emitted Light disengageable			
OSSD	Safety Output		Mag	Magnet activation			
Signal	Signal Output		RES	Input confirmation			
Bl_D+/–	Ethernet Gigabit bidirect. data line (A-D)		EDM	Contactor Monitoring			
EN0 RS422	Encoder 0-pulse 0-0̄ (TTL)		EN A RS422	Encoder A/Ā (TTL)			
			EN B RS422	Encoder B/B̄ (TTL)			

Wire Colors according to DIN IEC 757

BK	Black
BN	Brown
RD	Red
OG	Orange
YE	Yellow
GN	Green
BU	Blue
VT	Violet
GY	Grey
WH	White
PK	Pink
GNYE	Green/Yellow

Specifications are subject to change without notice