

# Connection Line

M12 × 1; 8-pin

## S80-2M

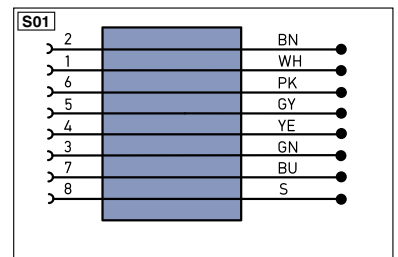
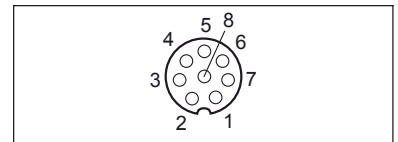
Part Number



### Technical Data

Mechanical Data	
Connection 1	Socket, straight
Connection mode 1	M12 × 1, 8-pin
Connection 2	stripped
Torque	M12: 0,5 Nm
Cable Length	2 m
Diameter Cable	6 mm
Wire cross-section	0,25 mm <sup>2</sup>
Degree of Protection	IP67
Temperature Range	-25...85 °C
Material Cable Jacket	PUR
Material Wire Isolation	PP
Material Cap Nut	CuZn, nickel-plated
Screened	yes
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.	<b>S01</b>
Connection Technology No.	<b>80</b>

- Halogen free, drag chain suitability
- PUR, straight



Legend			
+	Supply Voltage +	PT	Platinum measuring resistor
-	Supply Voltage 0 V	nc	not connected
~	Supply Voltage (AC Voltage)	U	Test Input
A	Switching Output (NO)	Ū	Test Input inverted
Ā	Switching Output (NC)	W	Trigger Input
V	Contamination/Error Output (NO)	Q	Analog Output
∇	Contamination/Error Output (NC)	O-	Ground for the Analog Output
E	Input (analog or digital)	BZ	Block Discharge
T	Teach Input	AWV	Valve Output
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	SrR	Switching Distance Reduction
E/A	Output/Input programmable	Rx+/-	Ethernet Receive Path
IO-Link	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
BI-D+/-	Ethernet Gigabit bidirect. data line (A-D)	EDM	Contactors Monitoring
ENa	Encoder 0-pulse 0-0 (TTL)	ENa	Encoder A/A (TTL)
		ENb	Encoder B/B (TTL)
		ENa	Encoder A
		ENb	Encoder B
		AMIN	Digital output MIN
		AMAX	Digital output MAX
		AOK	Digital output OK
		SY in	Synchronization In
		SY OUT	Synchronization OUT
		OUT	Brightness output
		M	Maintenance
			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