

Connection Line

M12 × 1; 8-pin

S80W-2M

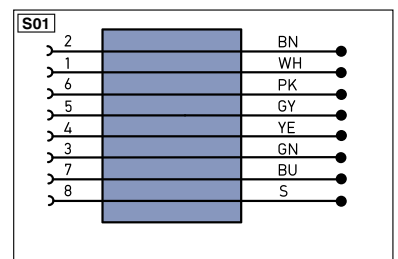
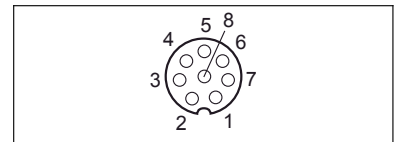
Part Number



Technical Data

Mechanical Data	
Connection 1	Socket, angled
Connection mode 1	M12 × 1, 8-pin
Connection 2	stripped
Torque	M12: 0,5 Nm
Cable Length	2 m
Cable Diameter	6 mm
Wire cross-section	0,25 mm ²
Degree of Protection	IP67
Temperature Range	-25...85 °C
Cable Jacket Material	PUR
Material Wire Insulation	PP
Material Sleeve 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 ²
Bending cycles	> 2000000
Packaging unit	1 Piece
Connection Diagram No.	S01
Connection Equipment No.	80

- Halogen free, drag chain suitability
- PUR, angled



Legend					
+	Supply Voltage +	PT	Platinum measuring resistor	EN _A rs42z	Encoder A/A (TTL)
-	Supply Voltage 0 V	nc	not connected	EN _B rs42z	Encoder B/B (TTL)
~	Supply Voltage (AC Voltage)	U	Test Input	EN _A	Encoder A
A	Switching Output (NO)	Ū	Test Input inverted	EN _B	Encoder B
Ā	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
Ṽ	Contamination/Error Output (NC)	O	Analog Output	AOK	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)	BZ	Block Discharge	DiT	Brightness output
S	Shielding	AWV	Valve Output	M	Maintenance
RxD	Interface Receive Path	a	Valve Control Output +	rsv	reserved
TxD	Interface Send Path	b	Valve Control Output 0 V	Wire Colors according to DIN IEC 757	
RDY	Ready	SY	Synchronization	BK	Black
GND	Ground	SY-	Ground for the Synchronization	BN	Brown
CL	Clock	E+	Receiver-Line	RD	Red
E/A	Output/Input programmable	S+	Emitter-Line	OG	Orange
⊕	IO-Link	≠	Grounding	YE	Yellow
PoE	Power over Ethernet	SnR	Switching Distance Reduction	GN	Green
IN	Safety Input	Rx +/-	Ethernet Receive Path	BU	Blue
QSSD	Safety Output	Tx +/-	Ethernet Send Path	VT	Violet
Signal	Signal Output	Bus	Interfaces-Bus A(+)/B(-)	GY	Grey
BL-D+/-	Ethernet Gigabit bidirect. data line (A-D)	La	Emitted Light disengageable	WH	White
EN _{rs42z}	Encoder 0-pulse 0-0 (TTL)	Mag	Magnet activation	PK	Pink
		RES	Input confirmation	GNYE	Green/Yellow
		EDM	Contactor Monitoring		

Specifications are subject to change without notice