

Connection Line

M12 × 1; 8-pin

S80-2M

Part Number



Technical Data

Electrical Data

Supply Voltage ≤ 36 V AC/DC

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

Outer diameter (d) 6 mm

Wire cross-section 0,25 mm²

Degree of Protection IP67

Temperature range (moving application) -25...80 °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) $> 5 \times d$

Bending radius (used in motion) $> 10 \times d$

Travel speed (with 5 m horizontal travel distance) $\leq 3,3$ m/s

Acceleration ≤ 5 m/s²

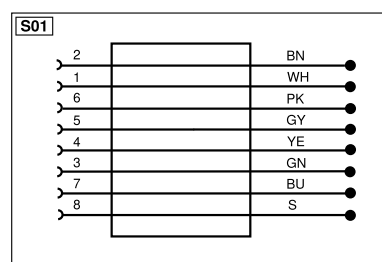
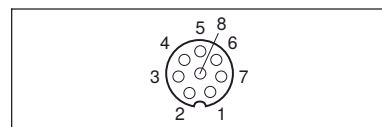
Bending cycles > 2000000

Packaging unit 1 Piece

Connection Diagram No. **S01**

Connection Equipment No. **80**

- Halogen free, drag chain suitability
- PUR, straight



* Per terminal



Legend					
+	Supply Voltage +	nc	Not connected	ENB ^{RS422}	Encoder B/ $\bar{B}$ (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	$\bar{U}$	Test Input inverted	ENb	Encoder B
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN
$\bar{A}$	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
$\bar{V}$	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	$\oplus$	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
	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
OSSD	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
EN ^{RS422}	Encoder 0-pulse 0/0 (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	EN ^{RS422}	Encoder A/ $\bar{A}$ (TTL)		

Specifications are subject to change without notice