Connection Cable
M12 × 1; 8-pin, X-coding

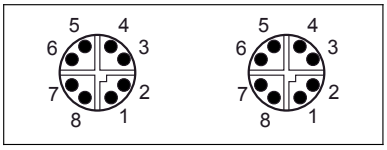
wenglor
the innovative family

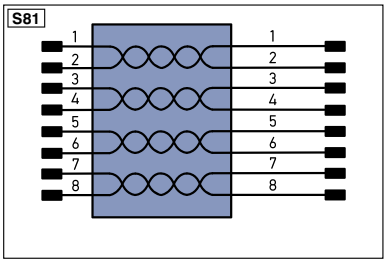
ZC1V005
Part Number

Technical Data

Mechanical Data	
Connection 1	Plug, straight
Connection mode 1	M12 × 1, 8-pin, X-cod.
Connection 2	Plug, straight
Connection mode 2	M12 × 1, 8-pin, X-cod.
Torque	M12: 0,4 Nm
Cable Length	10 m
Diameter Cable	6,9 mm
Wire cross-section	0,14 mm²
Degree of Protection	IP67
Temperature Range	-20...80 °C
Material Cable Jacket	PUR
Material Wire Isolation	PE
Material Cap Nut	Zinc diecasting, nickel-plated
Category	CAT 5E
Screened	yes
Halogen-free	yes
Drag Chain Suitable	yes
Bending radius (fixed installation)	4 × d
Bending radius (used in motion)	8 × d
Travel speed (with 5 m horizontal travel distance)	3 m/s
Acceleration	5 m/s²
Bending cycles	5000000
Packaging unit	1 Piece
Connection Diagram No.	S81
Connection Technology No.	50

- **Drag chain suitable**
- **PUR, straight**
- **Screened**





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)	O	Analog Output
V̄	Contamination/Error Output (NC)	O–	Ground for the Analog Output
E	Input (analog or digital)	BZ	Block Discharge
T	Teach Input	AMV	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	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
BI_D+/–	Ethernet Gigabit bidirect. data line (A-D)	EDM	Contactor Monitoring
EN0 RS422	Encoder 0-pulse 0-0̄ (TTL)	ENA RS422	Encoder A/Ā (TTL)
		ENB RS422	Encoder B/B̄ (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
OLT	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