

Connection Line

M12 × 1; 12-pin

ZDCL002

Part Number



Technical Data

Electrical Data

Supply Voltage ≤ 30 V DC

Mechanical Data

Connection 1	Socket, straight
Connection mode 1	M12 × 1, 12-pin
Connection 2	stripped
Torque	M12: 0,6 Nm
Cable Length	5 m
Outer diameter (d)	6,5 mm
Wire cross-section	0,14 mm ²
Degree of Protection	IP67
Temperature range (fixed installation)	-40...80 °C
Temperature range (moving application)	-25...80 °C
Cable Jacket Material	PUR
Material Wire Insulation	TPE
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)	$\leq 3,3$ m/s
Acceleration	≤ 5 m/s ²
Bending cycles	5000000
Number of torsion cycles	2000000
Torsional speed (cycles/min)	35

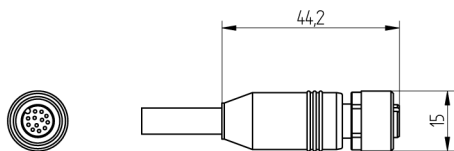
Packaging unit 1 Piece

Connection Diagram No.

S89

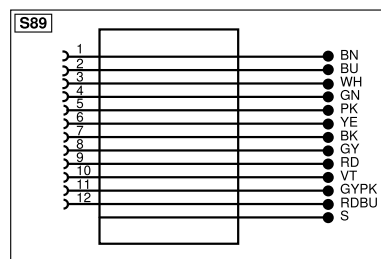
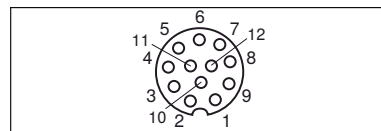
Connection Equipment No.

87



All dimensions in mm (1 mm = 0.03937 Inch)

- Drag chain suitable
- PUR, straight
- Screened
- Suitable for robots



* Per terminal

Legend					
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted	ENb	Encoder B
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN
Ä	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
V̄	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	±	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
IO-Link	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
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	ENAR422	Encoder A/A (TTL)		