



# LR Series

The latest innovation from Demac for wire transducers



## Lr Series

Cable transducer suitable for industrial applications needing measurement of linear positions. Sturdy, reliable, featuring a compact-sized design, it is studied to offer a variety of mounting solutions, even for small spaces.

### FEATURES

- Configuration by means of 4 key switches manu (analog version) or CAN-bus (digital version).
- Available with 3 water drain holes.
- IP protection degree: Pandia is classified IP65, IP67, IP69K.
- Extreme temperature resistance: from -25°C to +80°C.
- Featuring a sturdy case in technopolymer and equipped with a robust measuring wire (made of stainless steel), the cable transducer LR- Series guarantees an exceptionally long, maintenance-free service life even in harsh conditions.
- All materials and components used are wear resistant and guarantee protections against water and dust.

### OPTIONS

- Available in two versions with measuring wire ranging up to 1 m, 3 m or 5 m.
- Four different configurations available: with **4...20 mA** normal or redundant analog interface, with **CAN-bus** normal or redundant digital interface.
- 4 configurable relay outputs.

### CERTIFICATIONS

- CE marking (pending).



## INTERNAL VIEW



## CERTIFICATIONS

Conformity to Community Directives	2014/35/UE Low Voltage Directive
	2006/42/CE Machinery Directive
Conformity to CE Standards	EN 60204-1 Safety of machinery - Electrical equipment of machines
	EN 60947-1 Low-voltage switchgear and controlgear
	EN 60947-5-1 Low-voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices
	EN 60529 Degrees of protection provided by enclosures
Markings and homologations	CE pending

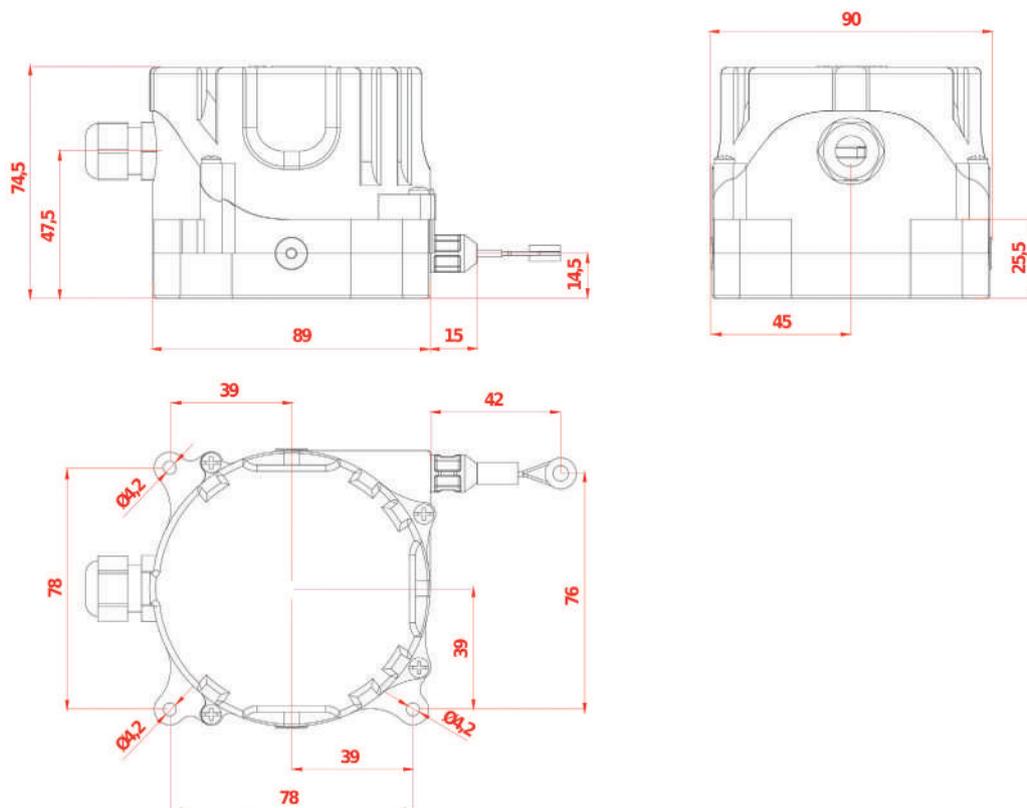
Ambient temperature	Storage -25°C/+80°C
	Operational -25°C/+80°C
IP protection degree	IP 65, IP 67, IP 69K
Measuring range	1000 mm
	3000 mm
Pull-out force	5000 mm
	5.5 N max
Measurement method	Magnetic
Max. speed	3 m/s
Weight	420 g

## ELECTRICAL SPECIFICATIONS

Interface	Analog 4...20 mA / 1...5 V	Redundant analog 4...20 mA / 1...5 V	Digital CAN-bus	Redundant digital CAN-bus
Channel	single	double with cross check	single	double with cross check
Power supply	12...30 Vdc			
Max consumption	50 mA	80 mA	50 mA	80 mA
Resolution	12 bit			
Accuracy	± 0.35%			
Linearity	± 0.5%			
Relay output	4 relays 1 A / 125 Vac	2 relays for 2 I/O safety lines	/	2 relays for 2 I/O safety lines
Connections	Cable clamp M16	2 connectors M12 5 PIN	Connector M12 8 PIN	2 connectors M12 5 PIN



## OVERALL DIMENSIONS (mm)

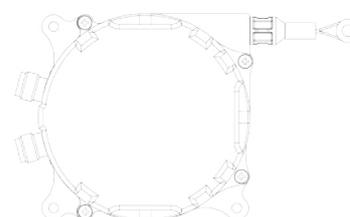
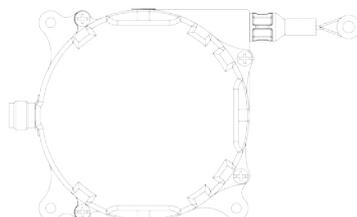
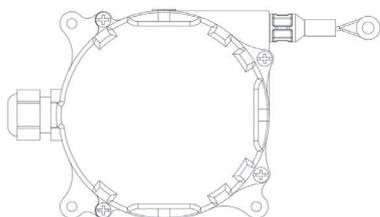


## CABLE CLAMP OR CONNECTOR OUTPUT POSITION

Pandia with analog interface

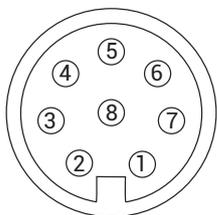
Pandia with digital interface

Redundant Pandia with analog or digital interface



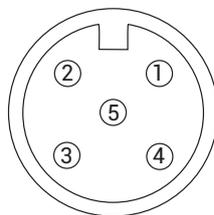
## MALE CONNECTOR ASSIGNMENT

Male connector 8 PIN  
(digital interface)



PIN	Signal	Description
1	+Vs	Supply voltage
2	DIR	CAN-H
3		Reserved
4		Reserved
5		Reserved
6		Reserved
7	SET	CAN-L
8	GND - 0 V	Supply voltage

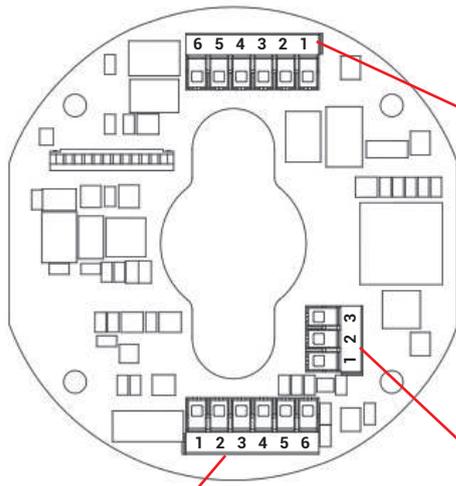
Male connector 5 PIN  
(analog or digital redundant interface)



PIN	Signal	Description
1	+Vs	Supply voltage
2	IOut 1 / CAN-L	Output 1
3	IOut 2 / CAN-H	Output 2
4	GND - 0 V	Supply voltage
5	/	



## CONNECTION PIN-OUT



POS	Relays	Description
1	Relay 1	NO
2	Relay 1	COM
3	Relay 1	NC
4	Relay 2	NO
5	Relay 2	COM
6	Relay 2	NC

POS	Relays	Description
1	Relay 3	NO
2	Relay 3	COM
3	Relay 3	NC
4	Relay 4	NO
5	Relay 4	COM
6	Relay 4	NC

POS	Description
1	12...30 Vdc
2	I OUT 4...20 mA
3	GND - 0 V

## PANDIA - REQUEST FORM FOR CABLE TRANSDUCER

### Version

- Analog 4...20 mA  
 Redundant analog 4...20 mA  
 Digital CAN-bus  
 Redundant digital CAN-bus

### Wire measuring range

- 1000 mm  
 3000 mm  
 5000 mm

### Wire hooking ring diameter

- 10 mm  
 15 mm

### Instructions

- Tick the box corresponding to the type of interface required.
- Tick the box corresponding to the wire measuring range required.
- Tick the box corresponding to the type of wire hooking ring required.

# WAKE UP! GET BACK TO REALITY

Dreams are not reel, it can be real.