

Robust sensor for hydraulic/fluid applications

Small, space saving stainless steel construction

Excellent long-term stability

Wide temperature range

Shock tested to ICE 60068-2-27 (6g)

Vibration tested to ICE 60068-2-6 (20g)



## Technical data

### Medium:

Neutral and aggressive gases or fluids

### Pressure ranges:

0 ... 50 bar (0 ... 725 psi)

### Port size:

G 1/4

### Output signal:

4 ... 20 mA (2-wire technology)

0 ... 10 V (3-wire technology)

### Supply voltage (PIN 1):

9 ... 36 V d.c. (2-wire technology)

14 ... 36 V d.c. (3-wire technology)

### Electrical connection:

M12 x 1

### Hysteresis and repeatability

### accuracy:

< ± 0,5% FS

### Residual ripple (max.):

10% (within supply voltage) at 50 Hz

### Linearity analogue port:

< ± 0,5% FS

### Load resistance:

See diagram

### Interference emission:

EN 50081-1

### Interference immunity:

EN 50082-2

### Degree of protection:

IP67 acc to EN 60529

(with plug mounted)

### Long term drift:

< ± 0.2% FS / a

### EMC:

EN 61000-6-2 and EN 61000-6-3

conforming to RL 2004/108/EC

### Fluid/Ambient temperature:

Fluid: -40 ... +150°C (-40 ... +302°F)

Ambient:

-40 ... +125°C (-13 ... +257°F)

Air supply must be dry enough to

avoid ice formation at

temperatures below +2°C (+35°F)

### Temperature sensitivity:

< ± 1.0% FS,

0... +80°C (0 ... 176°F)

< ± 1.5% FS,

-25... +100°C (-13 ... 212°F)

< ± 2.5% FS,

-40... +125°C (-40 ... 257°F)



### Materials:

Housing: stainless steel 1.4301

Medium contacting parts:

stainless steel 1.4548/FKM

## Technical data

Symbol	Port size	Measuring range *2) (relative pressure) (bar)	Max. over pressure (bar)	Output signal		Technology	Weight (kg)	Model *1)
				(mA)	(V)			
	G 1/4	0 ... 10	40	4 ... 20	—	2-wire	0,05	0862062
	G 1/4	0 ... 25	40	4 ... 20	—	2-wire	0,05	0862162
	G 1/4	0 ... 50	100	4 ... 20	—	2-wire	0,05	0862262
	G 1/4	0 ... 10	40	—	0 ... 10	3-wire	0,05	0862362
	G 1/4	0 ... 25	40	—	0 ... 10	3-wire	0,05	0862462
	G 1/4	0 ... 50	100	—	0 ... 10	3-wire	0,05	0862562

\*1) Connector not included. Please see page 2

\*2) Alternative ranges available on request.

## Accessories

Connector M 12 x 1  
90°



90°



straight



straight



0523058 (2 m cable length, 4-core)

0523056 (without cable)

0523057 (2 m cable length, 4-core)

0523055 (without cable)

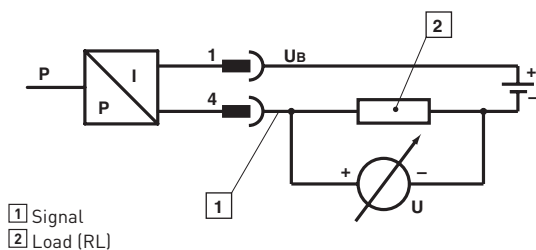
0523053 (5 m cable length, 4-core)

0523052 (5 m cable length, 4-core)

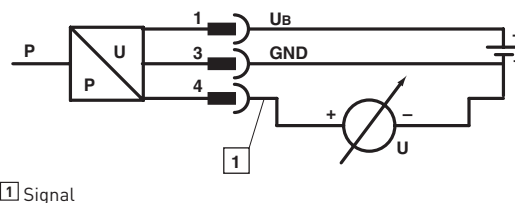
## Electrical connection M 12 x 1

	Electrical connection, M 12 x 1, PIN-No.	
	2-wire	3-wire
+ UB	1	1
GND	-	3
Signal	4	4

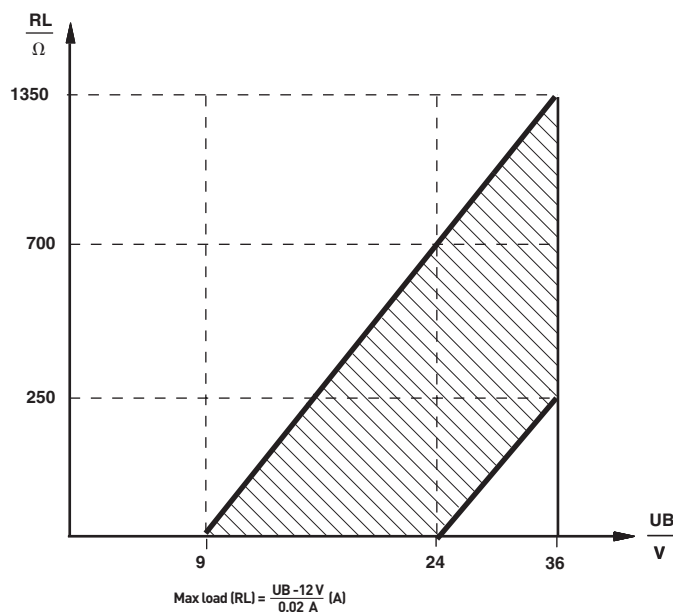
## Electrical diagram for 2-wire versions 4 ... 20 mA



## Electrical diagram for 3-wire versions 0 ... 10 V

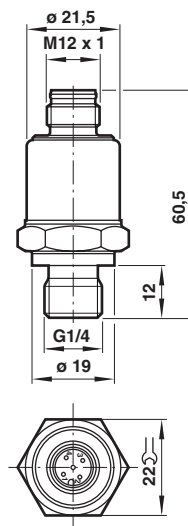


## Characteristic load curve



## Basic dimensions

Dimensions shown in mm  
Projection/First angle



## Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical features'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.