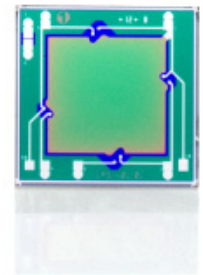


Electrical Characteristics (measured at 5 V supply and 25°C, unless otherwise specified)

Parameter	min.	typ.	max.	Unit
Bridge resistance	2,800	3,300	3,800	Ω
Offset voltage	-25	0	+25	mV
p-range: 10 kPa	-35	0	+35	
Temperature coefficient of bridge resistance ¹	+0.24	+0.26	+0.31	% /K
Temperature coefficient of offset ¹	10 kPa	0.00	+0.15	%F.S.S./K
	35 kPa	0.00	+0.07	
	100 kPa ... 60 MPa	-0.05	±0.02	
Temperature coefficient of span ¹	-0.21	-0.19	-0.17	%F.S.S./K
	p-range: 10 kPa	-0.23	-0.21	
Temperature coefficient of U _{diode} ¹	-2.30	-2.15	-2.00	mV/K
Temperature hysteresis ^{1A}		<0.10		±%F.S.S.
Pressure hysteresis		<0.10		±%F.S.S.
Long-term Stability		<0.10		±%F.S.S./year
Linearity error ^{2,3}		<0.30	0.50	±%F.S.S.
	p-range: higher than 10 MPa	<0.50	1.00	

1) Measured from 25°C to 85°C; 1A) Measured from 25°C to 125°C;
 2) End point straight line setting; 3) Pressure applied onto the front side of the die



Order No.

IL20 X - XXXX - X YY				
1	2	3	4	5

- 1) **Product Code**
Industrial Line STARe
- 2) **Outside Dimension**
L: 2.75 X 2.75 mm (10kPa...35kPa)
M: 2.15 X 2.15 mm (100kPa...60MPa)
- 3) **Pressure Range [Pa]**
10k0: 10 kPa = 100 mbar
60M0: 60 MPa = 600 bar
- 4) **Type (X)**
A: Absolute
G: Gauge (Glass)
- 5) **Thickness Back Plate**
YY: Back Plate Thickness in 100 µm

Certificate

ISO/TS 16949

Maximum Ratings

Type	Over Pressure (100kPa)		Burst Pressure (100kPa)	
	FS min.	RS min.	FS min.	RS min.
IL20L-10k0-GXX	6	3	>6	>3
IL20L-35k0-A/GXX	10	5	>10	>5
IL20M-100k-A/GXX	20	10	>20	>10
IL20M-250k-A/GXX	40	20	>40	>20
IL20M-500k-A/GXX	50	25	>50	>25
IL20M-01M0-A/GXX	60	30	>60	>30
IL20M-03M0-A/GXX	150	75	>150	>75
IL20M-10M0-A/GXX	200	75	>200	>75
IL20M-40M0-AXX	800	-	>800	-
IL20M-60M0-AXX	1200	-	>1200	-

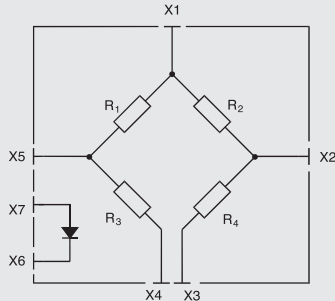
FS: Front side; RS: Rear side

Parameter	Limit Values			Unit
	min.	typ.	max.	
Operating temperature range (Higher temperature on demand)	-40		+150	°C
Storage temperature range	-50		150	°C
Supply voltage		5	12	V

Contact

First Sensor AG
 www.first-sensor.com

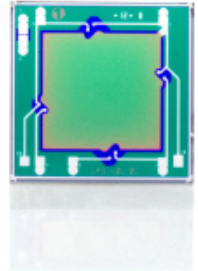
Bondpad Configuration



Bondpad No.	Connection
X1/X1B	+V _{Supply}
X2	+V _{Out}
X3	-V _{Supply}
X4	-V _{Supply}
X5/X5B	-V _{Out}
X6	-I _{Diode}
X7	+I _{Diode}

(pressure applied to the front side)

Substrate and cathode of diode have the same electrical potential. To avoid bias effects, diode and bridge cannot be used simultaneously.



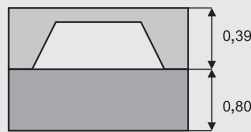
Order No.



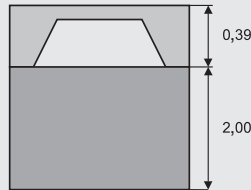
Technical Options

Absolute Types

IL20X-XXXX-A08

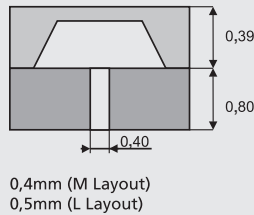


IL20X-XXXX-A20

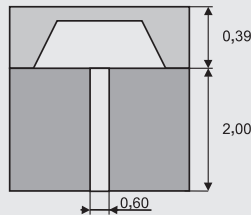


Gauge Types

IL20X-XXXX-G08



IL20X-XXXX-G20



Dimensions in mm

- 1 **Product Code**
Industrial Line STARe
- 2 **Outside Dimension**
L: 2.75 X 2.75 mm (10kPa...35kPa)
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- 5 **Thickness Back Plate**
YY: Back Plate Thickness in 100 µm

Certificate

ISO/TS 16949

Contact

First Sensor AG
www.first-sensor.com

Disclaimer

All informations are only for product description without any legal binding. For further improvement of technical details, they are subject to change.