

● Characteristics

0620 - LOAD MEASURING - FORCE - OVERLOAD

IO-Link



- Input:	Load suspension device
- Function load cell:	Tension / Compression / Tension and compression
- Measuring range:	500 kg / 1000 kg / 1500 kg / 3000 kg
- Output:	IO-Link interface
- Voltage supply:	24 VDC
- Accuracy:	See technical data
- Protection class:	IP54
- Vibration protection:	Electronics completely potted
- Configuration:	per software (IO-Link)
- Material load cell:	Stainless steel / Tool steel nickel-plated
- Accessories:	Rod ends

● Technical Data

Input

Load suspension device: Tension load, compression load, tension and compression load
 (Strain gauge full bridge)
 Ranges: 500 kg / 1000 kg / 1500 kg / 3000 kg

Output

Interface: IO-Link
 Signal level: 0/24V (as per IO-Link specification)

Performance Parameters

Measurement amplifier: Accuracy: max. 0,05% of range + sensor error
 Resolution: 16 Bit
 Filter adjustment: 0...5 s
 Switch-on delay: <5 s
 Response time: 20 ms
 Configuration: via software (IO-Link)

Load Cell Specifications

Material: Stainless steel / Tool steel nickel-plated
 Hysteresis: 0,5% of range
 Repeatability: 0,05% of range
 Creepage: 0,05% of range / 10 min
 Temperature drift on zero: 0,05% of range / 10 K
 Temperature drift on span: 0,05% of range / 10 K
 Safe overload: 150% of range
 Ultimate load: 200% of range

● Applications

The load cell with integrated measuring amplifier IO-Link is for use in applications where dynamic forces have to be measured. Possible are tension, compression and tension / compression loads. The output signal has a signal level of 24 V (IO-Link specification). The load cells are available with rod ends.

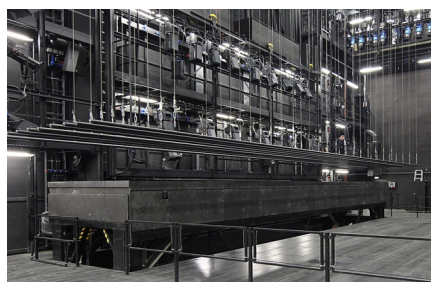


photo: www.pixelquelle.de

● **Technical Data (Continued)**

Supply

Voltage:	24 VDC
Current:	
Standard:	<30 mA
Switching (SIO):	max. 100 mA
Total current:	max. 130 mA
Reverse voltage protection:	Available (no function, no damage)

Environmental Conditions

Operating temperature:	-20...+80°C
Storage temperature:	-20...+85°C
Humidity:	30...90% rH (40 °C, no condensation)

Mechanics

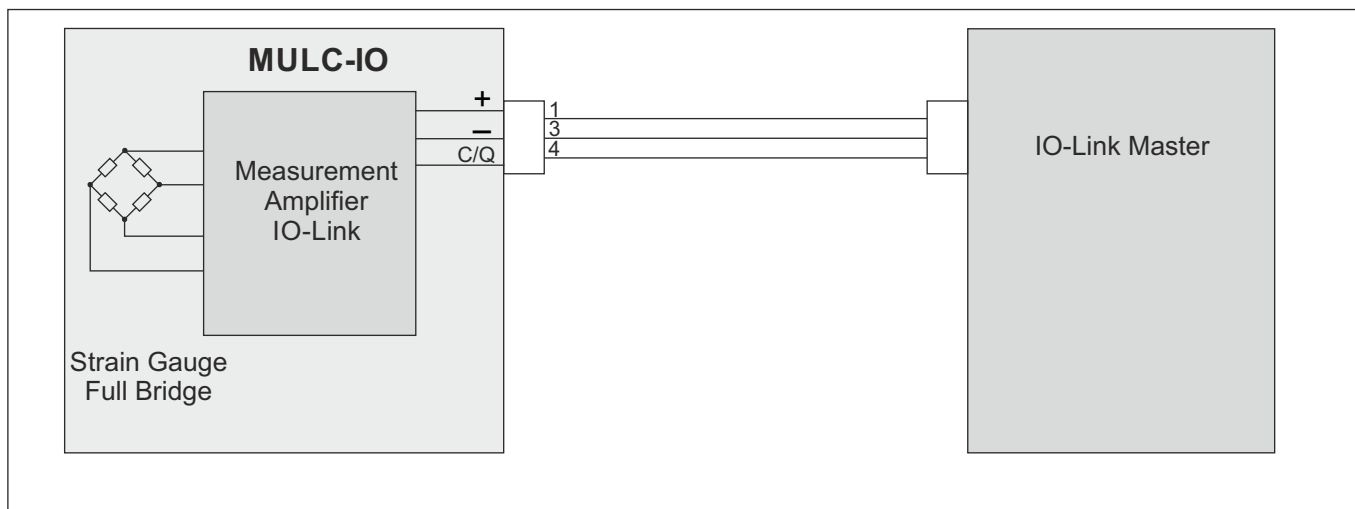
Protection class:	IP54
Weight:	
500/1000 kg:	approx. 343 g (no rod ends, no covers)
1500/3000 kg:	approx. 423 g (no rod ends, no covers)
Vibration resistance:	Inside potted
Electrical connection:	IO-Link: Male plug M12x1, 4-pole
Load cell:	
Type:	Tension and compression load cell
Dimensions:	See table page 3
Material:	Stainless steel / Tool steel nickel-plated
Mounting device:	Rod ends / Option: without (The operator uses the threaded holes of the load cell.)

● **IO-Link**

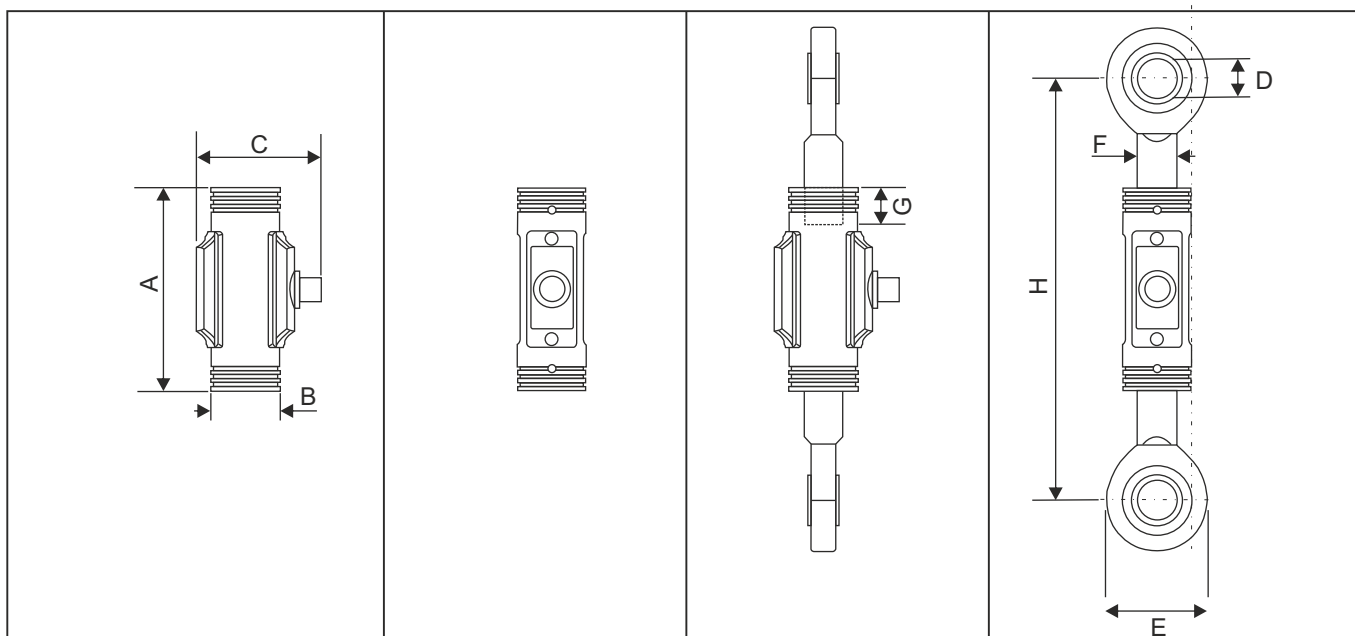
The configuration has to take place over a connected IO-Link master. You will also need the related IO Device Description (IODD) file. You can find information about working with IO-Link and a list of all readable parameters in *Technical Overview IODD - MULC-IO*. The IODD-file can be downloaded directly via the IODD-Finder. The TO IODD MULC-IO and a link to the IODD-Finder can be found on our website www.mueller-ie.com.

Electrical Connection

IO-Link Connection with Plug M12x1 (4-pole)



Dimensions (in mm)



Range	A	B	C	D	E	F	G	H
1000 kg*	90	Ø35	64	Ø17	35	M16	18	198 ±2
1500 kg	90	Ø35	64	Ø17	34	M16	17	198 ±2
3000 kg	105	Ø35	64	Ø20	53	M20x1,5	23	218 ±1,5

*Dimensions 500 kg = dimensions 1000 kg

● **Order Code**

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Function load cell:	Tension load Compression load Tension- and compression load	A B C																		
Output:	IO-Link (24 VDC)		0																	
Supply:	24 VDC			0																
Vibration resistance:	Yes (inside potted)				1															
Range load cell:	500 kg 1000 kg 1500 kg 3000 kg									0 1 2 3										
Material load cell:	stainless steel tool steel nickel-plated										0 1									
Mounting device:	rod ends without (The operator uses the threaded holes of the load cell.)											0 1								
Electrical connection:	M12x1, 4-pole																			1
Configuration:	without factory setting customized (please specify)																			0 1 2
Special model:	No Yes (please specify)																			0 1