# Modular Universal Load Cell IO-Link

#### Characteristics

0620 - LOAD MEASURING - FORCE - OVERLOAD

**MULC-IO** 

😢 IO-Link	6	- Input:	Load suspension device
		- Function load cell:	Tension / Compression / Tension and compression
	Î	- Measuring range:	500 kg / 1000 kg / 1500 kg / 3000 kg
31	e le	- Output:	IO-Link interface
		- Voltage supply:	24 VDC
		- Accuracy:	See technical data
		- Protection class:	IP54
e c		- 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: (Strain gauge full bridge)	Tension load, compression load, tension and compression load						
Ranges:	500 kg / 1000 kg / 15	00 kg / 3000 kg					
Output							
Interface: Signal level:	IO-Link 0/24V (as per IO-Link specification)						
Performance Parameters							
Measurement amplifier:	Accuracy: Resolution: Filter adjustment: Switch-on delay: Response time: Configuration:	max. 0,05% of range + sensor error 16 Bit 05 s <5 s 20 ms via software (IO-Link)					
Load Cell Specifications							
Material: Hysteresis: Repeatability: Creepage: Temperature drift on zero: Temperature drift on span: Safe overload: Ultimate load:	Stainless steel / Tool steel nickel-plated 0,5% of range 0,05% of range 0,05% of range / 10 min 0,05% of range / 10 K 0,05% of range / 10 K 150% of range 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.



Modular Universal Load Cell IO-Link

#### Technical Data (Continued)

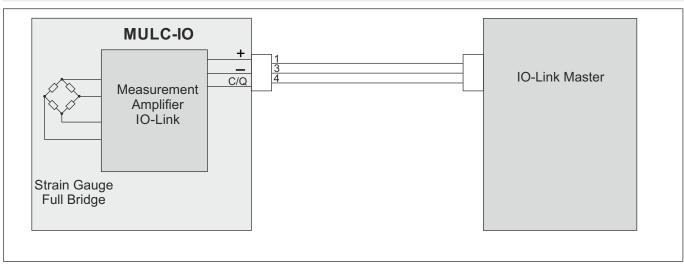
• • • • • • • • • • • • • • • • • • • •							
Supply							
Voltage: Current:	24 VDC						
Standard: Switching (SIO):	<30 mA max. 100 mA						
Total current:	max. 130 mA						
Reverse voltage protection:	Available (no function, no damage)						
<b>Environmental Conditions</b>							
Operating temperature:	-20+80°C						
Storage temperature:	-20+85°C						
Humidity:	3090% rH (40 °C, no condensation)						
Mechanics							
Protection class: Weight:	IP54						
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: Load cell:	IO-Link: Male plug M12x1, 4-pole						
Туре:	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.)						

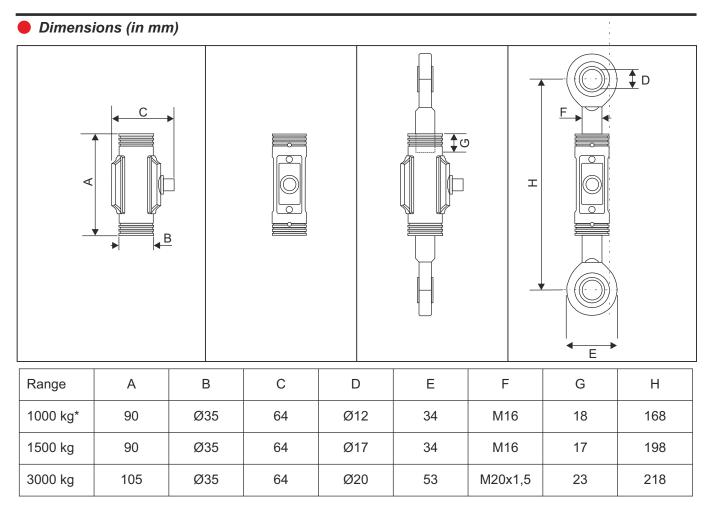
# lO-Link

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 500 kg = dimensions 1000 kg

Order Code														
		С	Η	X	X	X	X	X	X	-	X	X		X
Function load cell:	Tension load Compression load Tension- and compressio	n 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 use	es the	threa	adeo	d hc	oles	of th	e loa	ad ce	ell.)	0 1			
Electrical connection:	M12x1, 4-pole											1		
Configuration:	without factory setting customized (please speci	fy)											0 1 2	
Special model:	No Yes (please specify)													0 1