

# **METAL DETECTOR TANDEM SYSTEM**

**L 653/2 e**

**Reliable Protection  
Of Machines And Plants**



**Technology  
Full Of  
Attraction**



wagner  
magnete

Wagner metal detectors control conveyer flows. As soon as a magnetic or non-magnetic metal part of sufficient size passes the sensor, it is detected and a potential-free relay contact is activated.

The type 653/2 is a divisible tandem system.



*Reliable operation due to robust sensor housings*

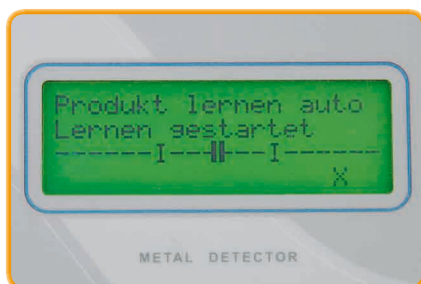
Both transmitter and receiver coils are encapsulated and shielded in solid steel casings. Therefore our detectors are robust and fail-safe and show high protection against thermal and mechanical stress.

*Easy mounting quick commissioning reduce costs*

If none of our standard devices can be installed because of especially difficult installation conditions, we can manufacture custom designs. The control electronics can be mounted up to 50 meters from the sensor. No special knowledge is required for commissioning.

*Latest control technology for maximum safety and easy operation*

Our new control electronics 650/2 with user-friendly text display is an essential item of all Wagner metal detector control units. Latest control technology and evaluation algorithms are the basis for high resistance to jamming and effective suppression of material effects.



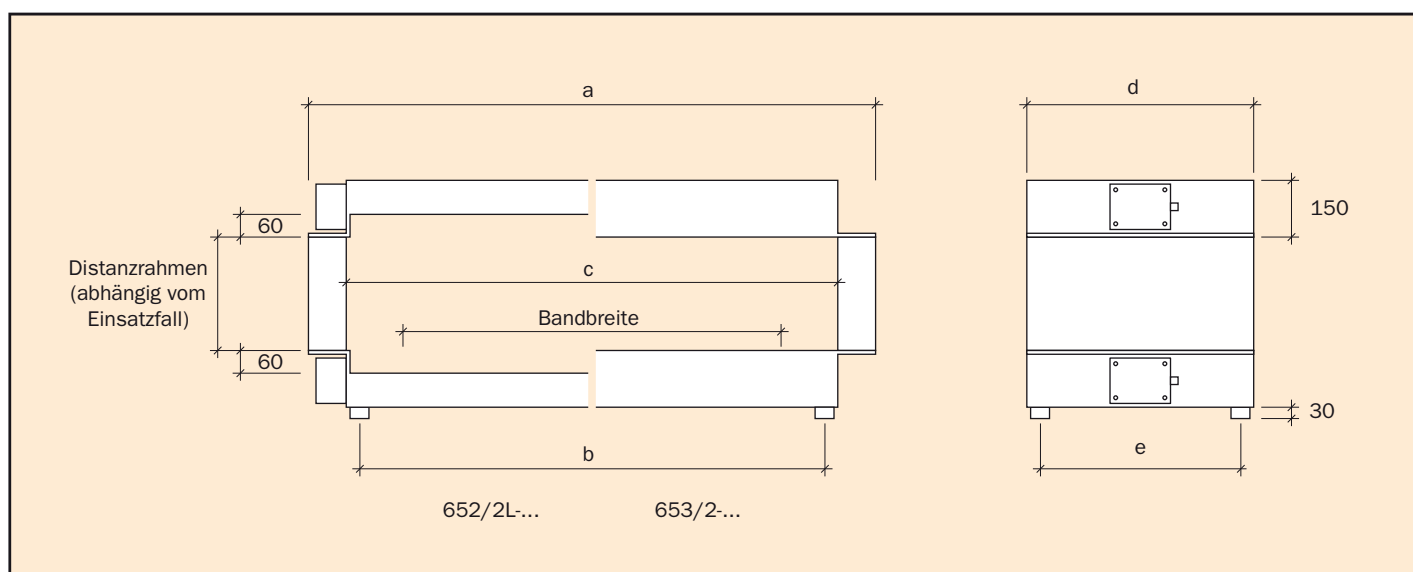
It is possible to store 50 different detector configurations. They can be invoked by using the text display. The standard controller provides English and German operation language. A third operation language can be pre-installed by Wagner or can be loaded in the field.

Potential-free relay contacts are used for metal detected and detector healthy signals.

## METAL DETECTOR TANDEM SYSTEM 653/2

### DIMENSIONS

Type	belt width mm	a mm	b mm	c mm	d mm	e mm	f mm	weight kg
653/2-50-60	500	1000	750	800	150	600	520	200
653/2-65-60	650	1150	900	950	150	600	520	220
653/2-80-60	800	1300	1050	1100	150	600	520	240
653/2-100-60	1000	1500	1250	1300	150	600	520	270
653/2-120-60	1200	1700	1450	1500	150	600	520	295
653/2-140-60	1400	1900	1650	1700	150	600	520	325
653/2-160-60	1600	2100	1850	1900	150	600	520	350
653/2-50-45	500	1000	750	800	150	450	370	170
653/2-65-45	650	1150	900	950	150	450	370	185
653/2-80-45	800	1300	1050	1100	150	450	370	200
653/2-100-45	1000	1500	1250	1300	150	450	370	225
653/2-120-45	1200	1700	1450	1500	150	450	370	245
653/2-140-45	1400	1900	1650	1700	150	450	370	270
653/2-160-45	1600	2100	1850	1900	150	450	370	290
653/2L-50-60	500	1000	750	800	90	600	520	150
653/2L-65-60	650	1150	900	950	90	600	520	165
653/2L-80-60	800	1300	1050	1100	90	600	520	180
653/2L-100-60	1000	1500	1250	1300	90	600	520	205
653/2L-120-60	1200	1700	1450	1500	90	600	520	225
653/2L-50-45	500	1000	750	800	90	450	370	120
653/2L-65-45	650	1150	900	950	90	450	370	130
653/2L-80-45	800	1300	1050	1100	90	450	370	145
653/2L-100-45	1000	1500	1250	1300	90	450	370	165
653/2L-120-45	1200	1700	1450	1500	90	450	370	180



Changes of dimensions and design are subject to alterations. Please ask for latest drawings.



The basic control electronics 650/2 comes with a shielding wall mountable steel sheet casing. The text display is fully integrated in the front door. All necessary electrical connections can be made via the fittings in the bottom of the casing.

Protective system IP54

Weight: 5,5 kg

Casing dimensions: 280 x 270 x 100 mm

Nominal voltage: 100 ... 240 Volt AC / 50 ... 60 Hz

Power consumption: ca. 100 Watt

*650/2 S-2 and 650/2 S-1:  
Optimized for use in industrial  
control systems*

The control unit 650/2 S-2 comes with an additional robust wall-mountable steel enclosure. It is well protected against mechanical damage, rain, sand, dust and other environmental conditions. All potential-free relay contacts and power lines (100 ... 240V AC) are easily accessible at reliable spring terminals.

Additional comfort provides the control unit 650/2 S-1 with its integrated universal transformer for connecting the controller to various supply voltages (230 to 550 Volt AC). Additionally all controller inputs and outputs for complex control technologies (e.g. remote sensitivity control) are easily accessible at spring terminals. The control unit is ready for use with additional signal lights and hooters which can be mounted at the steel casing.



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