

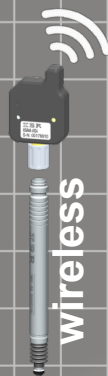
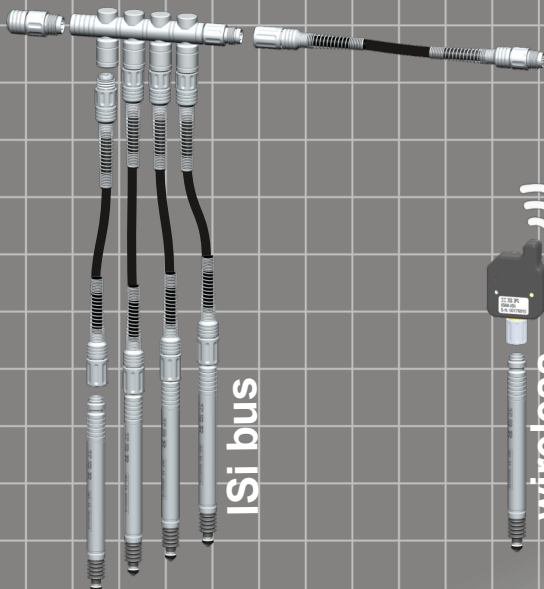
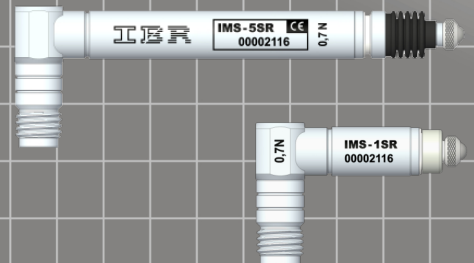
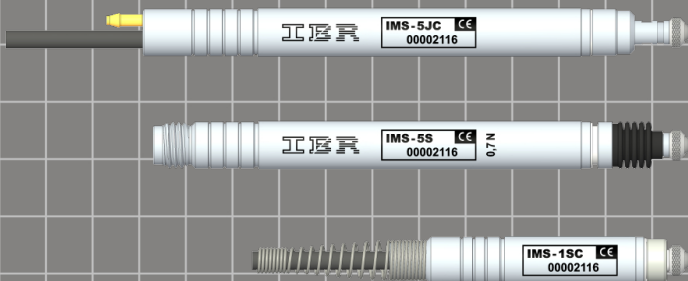


Messtechnik GmbH & Co. KG



IMS 

Sonde di misura



alta precisione : $< 1 \mu\text{m}$

alta risoluzione : $0.01 \mu\text{m}$

compensazione temperatura



IMS - Sonde di misura

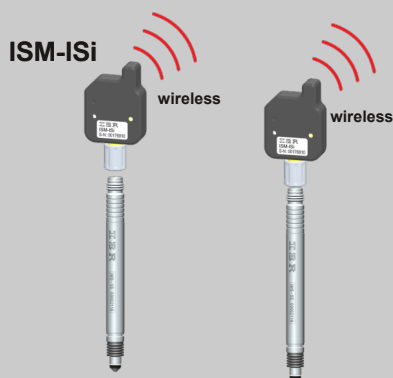


Sonda IMS: una nuova generazione di sonde di misura induttive con elaborazione del segnale integrata e interfaccia digitale.

Le nuove sonde di misura IMS si basano su affidabili cuscinetti a sfere senza gioco e sul robusto principio di misura induttivo. Tuttavia, i sensibili segnali di misura analogici non vengono più trasferiti all'esterno della sonda tramite cavi e poi misurati esternamente dall'elettronica, ma vengono elaborati e digitalizzati direttamente all'interno delle sonde di misura IMS. Un principio di misura innovativo e un'elettronica altamente integrata rendono possibile questa pietra miliare della nuova generazione di sonde di misura IMS.



Collegamento wireless delle sonde IMS

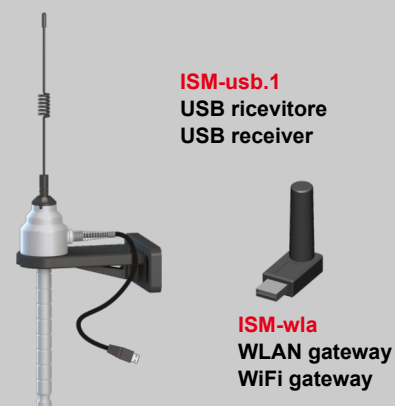


500 Indirizzi / 500 addresses
Live Display / Live display

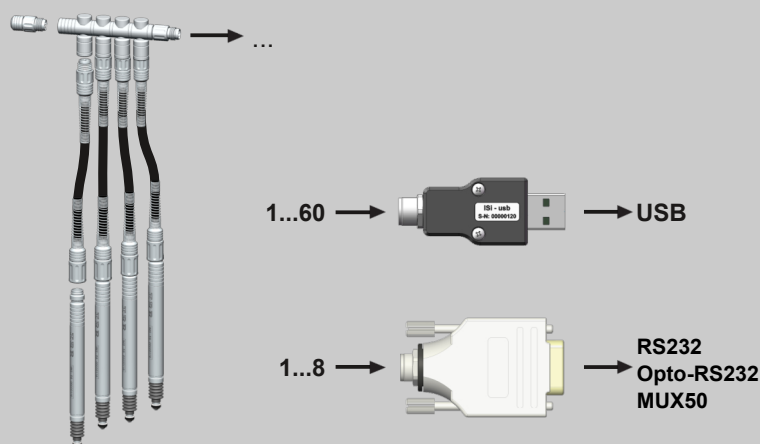
Lunga durata della batteria /
Long battery live time

Grande distanza /
Large distance

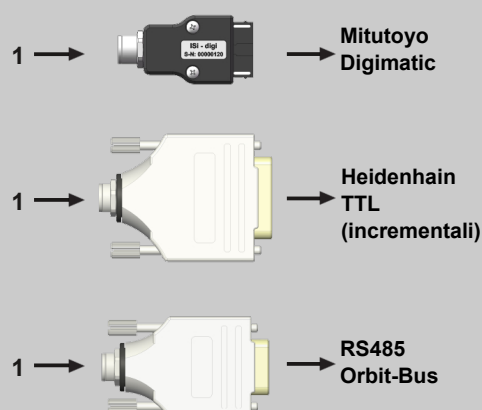
Wireless connection of IMS probes



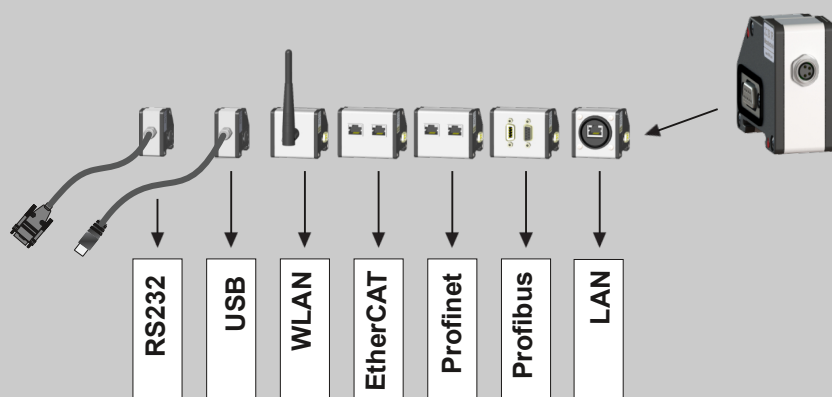
Connettività a sistemi di terze parti



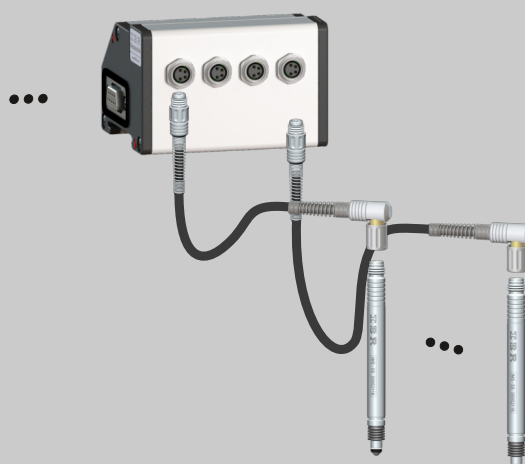
Connectivity to 3rd party systems



Connettività a PC, PLC, ...



Connectivity to PC, PLC, ...



IMS measuring probe



IMS probe - a new generation of inductive measuring probes with integrated signal processing and digital interface.

The new IMS measuring probes are based on the reliable clearance-free ball bearings and the robust inductive measuring principle. But the sensible and sensitive analogue measuring signals are no longer transferred out of the case of the measuring probe via cables and then measured externally by electronics, instead they are processed and digitised directly inside the IMS measuring probes. An innovative measuring principle and highly integrated electronics make this milestone of new generation IMS measuring probes possible.

■ ■ Confronto tra sonde induttive

Comparison of ind. probes

	vecchie / old	nuove / new	
Caratteristiche meccaniche	Standard	IMS	Mechanical characteristics
Cassa tubolare compatta, acciaio inoss. Ø8h6	✓	✓	Compact tube case, stainless steel 8h6
Elevata classe di protezione per ambienti difficili	✓	✓	High protection class for rough environments
Cuscinetto a sfere senza gioco per misure precise	✓	✓	Clearance-free ball bearing for precise mea.
Asta porta tasto Ø4, attacco tasto M2,5	✓	✓	Gauge spindle Ø 4, gauge slide M2.5
Azionamento: molla, vuoto, aria compressa	✓	✓	Actuation by spring, vacuum, compressed air
Cavo collegabile alla sonda per semplice montaggio/sostituzione sui dispositivi	(raro / rarely)	✓	Cable pluggable at measuring probe for simple mounting / exchange on fixtures
Semplice estensione dei cavi senza influenza sui valori di misura		✓	Simple extension of cables without influence on measuring values
Cavi bus per una drastica riduzione dei cavi di collegamento e del cablaggio		✓	Bus cables for drastic reduction of connection cables and wiring
Caratteristiche dell'elettronica integrata			Characteristics of integrated electronics
Segnali dei sensori perfettamente stabili, senza influenze o interferenze esterne		✓	Optimal stable sensor signals without influence by cable / external interferences
Correzione degli errori individuali di ogni sonda		✓	Individual error correction of each probe
Tolleranza di regolazione della sensibilità [%]	0.3...0.6	< 0.05	Adjustment tolerance of sensitivity [%]
Errore massimo di linearità (+/- 2mm)	< 24 µm	< 1 µm	Max. linearity error (+/- 2 mm)
Deriva della temperatura [ppm / °C]	100	20	Temperature drift [ppm / °C]
Nessun errore dovuto all'elettronica esterna		✓	No errors by external measuring electronics
Il sensore della temperatura integrato fornisce la temperatura della sonda e del dispositivo		✓	Integrated temperature measurement provides temperature of measuring probe / fixture
Interfaccia			Interface
Cablaggio semplice con adattatori ISi e cavi di prolunga ISi collegabili a un bus con fino a 60 sonde/sensori (bus ISi)		✓	Simple wiring with ISi connection adapters and pluggable ISi extension cables to a bus with up to 60 probes / sensors (ISi bus)
Identificazione delle sonde IMS: tipo, numero di serie, ..., prossima data di ispezione possono essere richiesti direttamente dalla sonda		✓	Identification of IMS measuring probes: Type, serial number, ..., next date of inspection can be requested directly from the probe

■ ■ Dati tecnici

Technical data

Caratteristiche metrologiche		Metrological characteristics
Campo di misura	1 mm / 5 mm	Measuring range
Risoluzione	0.1 µm (0.01 µm)	Resolution
Accuratezza	< 1 µm	Accuracy
Velocità di misura [valori / secondo (0.1µm)]	1500	Measuring rate [values / sec (0.1 µm)]
Forza di misura	0.4 ... 2.0 N	Measuring force
Caratteristiche metrologiche		Electrical characteristics
Alimentazione	2.7 ... 3.6 V	Supply voltage
Consumo energetico [misura / secondo.]	2.8 µA	Power consumption [one measurement/sec.]
Caratteristiche del sensore di temperatura integrato		Characteristics of integrated temperature sensor
Campo di misura	-20 °C ... 80 °C	Measuring range
Risoluzione	0.25 °C	Resolution
Accuratezza	+/- 1.5 °C	Accuracy
Condizioni ambientali		Environmental conditions
Temperatura utilizzo / stoccaggio	0...50°C / -20...+70°C	Operation / Storage temp.

Panoramica sonde IMS

IMS - measuring probe survey



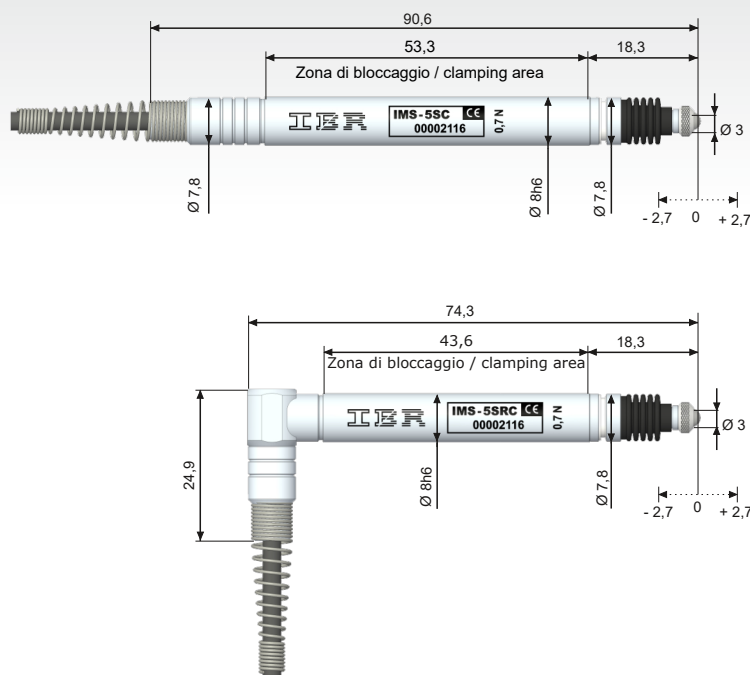
IMS-5SC / IMS-5SRC

Sonda di misura, induttiva, con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia ISI-Bus, campo di misura 5 mm, spinta a molla



IMS-5SC / IMS-5SRC

Inductive measuring probe with free of clearance ball bearing, integrated signal processing and ISI-Bus interface, measuring range 5 mm, spring pushed



Art. No. :		
F350 015	IMS-5SC	5mm , 0.7N
F350204	IMS-5SC	5mm , 0.4N
F350212	IMS-5SC	5mm , 1.2N
F350216	IMS-5SC	5mm , 1.6N
F350220	IMS-5SC	5mm , 2.0N

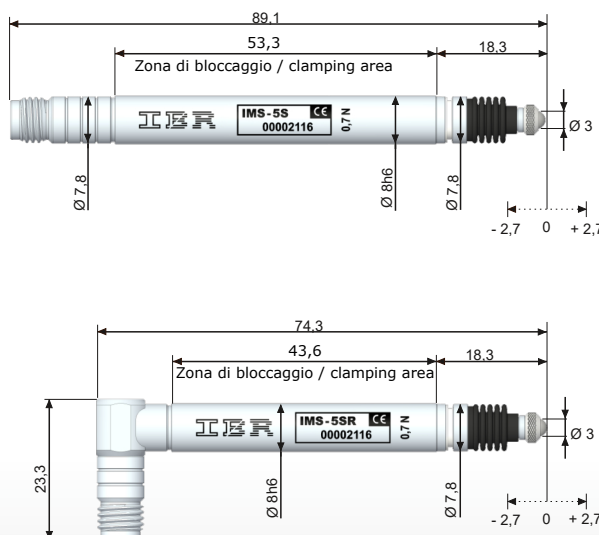
Art. No. :		
F350 017	IMS-5SRC	5mm , 0.7N
F350254	IMS-5SRC	5mm , 0.4N
F350262	IMS-5SRC	5mm , 1.2N
F350266	IMS-5SRC	5mm , 1.6N
F350270	IMS-5SRC	5mm , 2.0N

IMS-5S / IMS-5SR

Sonda di misura, induttiva, con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia ISI-Bus, campo di misura 5 mm, spinta a molla

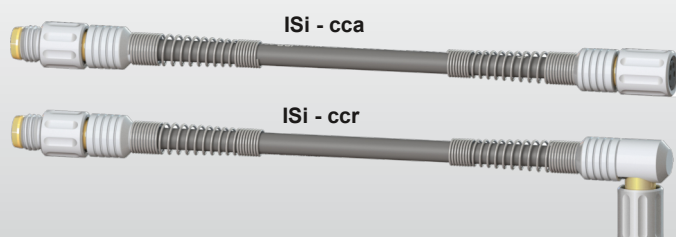
IMS-5S / IMS-5SR

Inductive measuring probe with free of clearance ball bearing, integrated signal processing and ISI-Bus interface, measuring range 5 mm, spring pushed



Art. No. :		
F350 010	IMS-5S	5mm , 0.7N
F350104	IMS-5S	5mm , 0.4N
F350112	IMS-5S	5mm , 1.2N
F350116	IMS-5S	5mm , 1.6N
F350120	IMS-5S	5mm , 2.0N

Art. No. :		
F350 012	IMS-5SR	5mm , 0.7N
F350154	IMS-5SR	5mm , 0.4N
F350162	IMS-5SR	5mm , 1.2N
F350166	IMS-5SR	5mm , 1.6N
F350170	IMS-5SR	5mm , 2.0N



Per ulteriori informazioni sui cavi di collegamento e sugli adattatori, vedere pagina 11

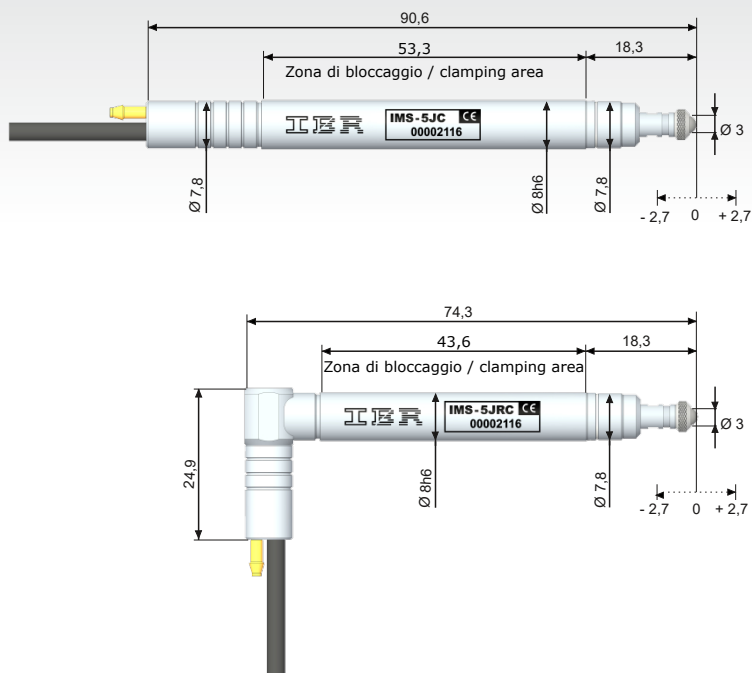
Further information about the connection cables and adapters see page 11

Panoramica sonde IMS



IMS-5JC / IMS-5JRC

Sonda di misura, induttiva, con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia ISI-Bus, campo di misura 5 mm, con spinta pneumaticamente a pistone



IMS - measuring probe survey



IMS-5JC / IMS-5JRC

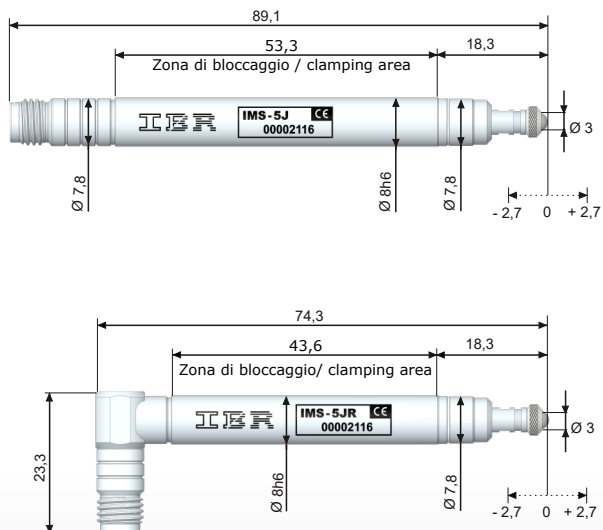
Inductive measuring probe with free of clearance ball bearing, integrated signal processing and ISI-Bus interface, measuring range 5 mm, pneumatically jet pushed

Art. No. :	
F350 035	IMS-5JC 5mm , pneumatica

Art. No. :	
F350 037	IMS-5JRC 5mm , pneumatica

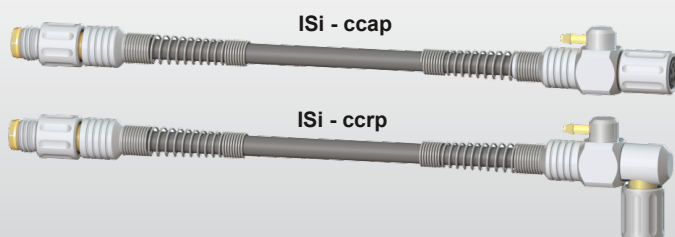
IMS-5J / IMS-5JR

Sonda di misura, induttiva, con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia ISI-Bus, campo di misura 5 mm, spinta pneumaticamente a pistone



Art. No. :	
F350 030	IMS-5J 5mm , pneumatica

Art. No. :	
F350 032	IMS-5JR 5mm , pneumatica



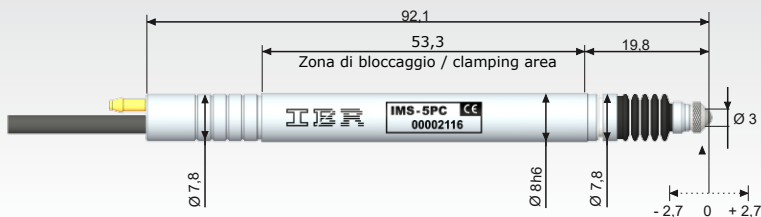
Per ulteriori informazioni sui cavi di collegamento e sugli adattatori, vedere pagina 11

Further information about the connection cables and adapters see page 11

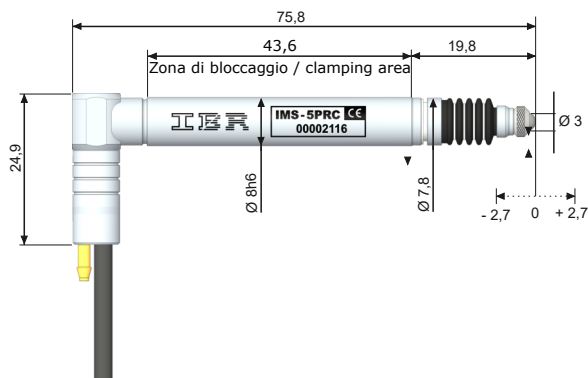


IMS-5PC / IMS-5PRC

Sonda di misura, induttiva, con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia ISI-Bus, campo di misura 5 mm e soffietto con spinta pneumatica



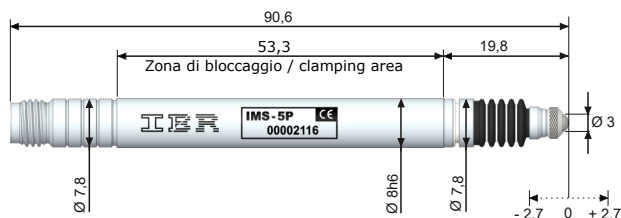
Art. No. :	
F350 025	IMS-5PC 5mm , pneumatica



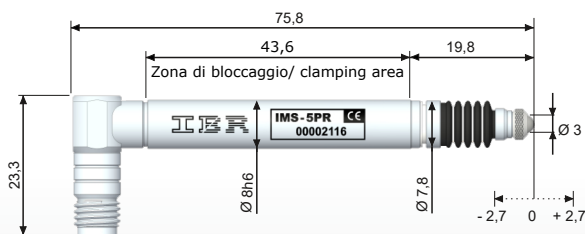
Art. No. :	
F350 027	IMS-5PRC 5mm , pneumatica

IMS-5P/ IMS-5PR

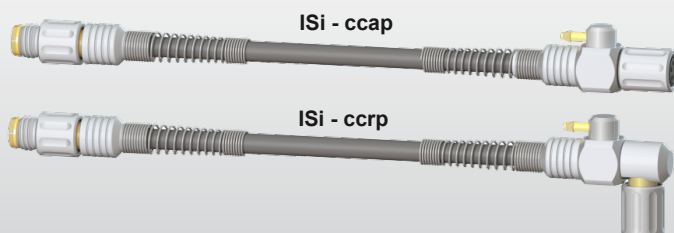
Sonda di misura, induttiva, con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia ISI-Bus, campo di misura 5 mm e soffietto con spinta pneumatica



Art. No. :	
F350 020	IMS-5P 5mm , pneumatica



Art. No. :	
F350 022	IMS-5PR 5mm , pneumatica



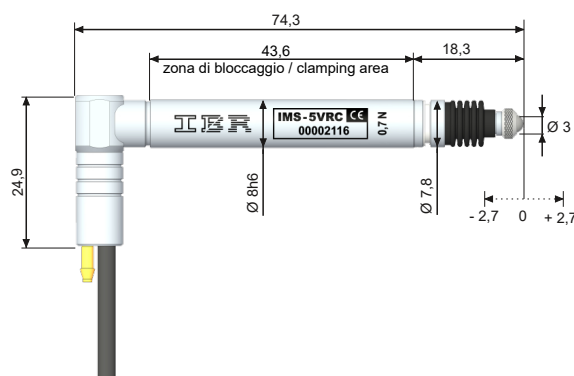
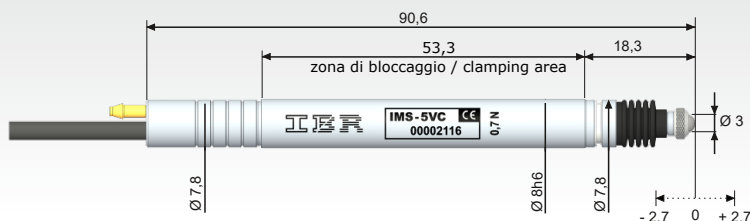
Per ulteriori informazioni sui cavi di collegamento e sugli adattatori, vedere pagina 11

Further information about the connection cables and adapters see page 11



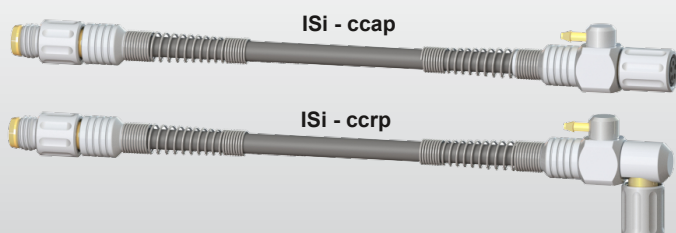
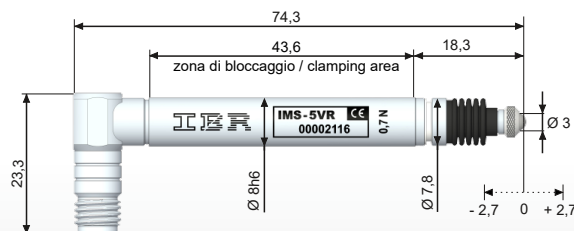
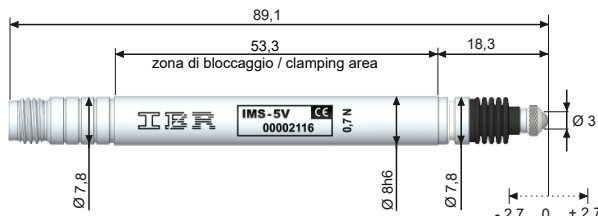
IMS-5VC / IMS-5VRC

Sonda di misura, induttiva, con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia ISi-Bus, campo di misura 5 mm e sollevamento a vuoto



IMS-5V / IMS-5VR

Sonda di misura, induttiva, con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia ISi-Bus, campo di misura 5 mm e sollevamento a vuoto



IMS-5VC / IMS-5VRC

Inductive measuring probe with free of clearance ball bearing, integrated signal processing and ISi-Bus interface, measuring range 5 mm, vacuum lifted

Art. No. :	
F350 045	IMS-5VC 5mm , a vuoto

Art. No. :	
F350 047	IMS-5VRC 5mm , a vuoto

IMS-5V / IMS-5VRI

Inductive measuring probe with free of clearance ball bearing, integrated signal processing and ISi-Bus interface, measuring range 5 mm, vacuum lifted

Art. No. :	
F350 040	IMS-5V 5mm , a vuoto

Art. No. :	
F350 042	IMS-5VR 5mm , a vuoto

Per ulteriori informazioni sui cavi di collegamento e sugli adattatori, vedere pagina 11

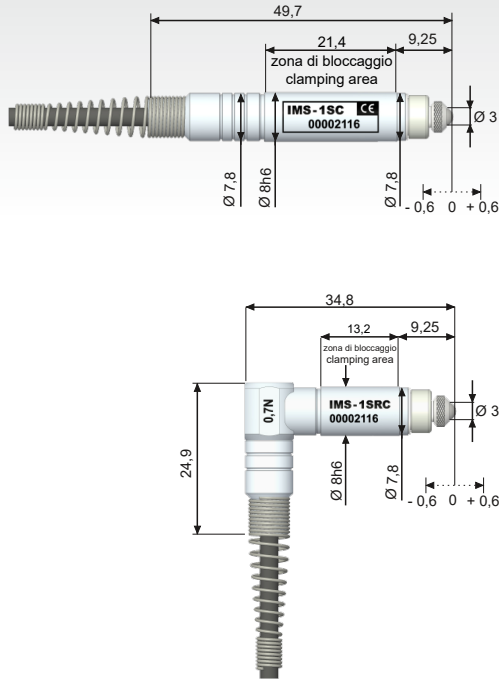
Further information about the connection cables and adapters see page 11

Panoramica sone IMS



IMS-1SC / IMS-1SRC

Sonda di misura induttiva con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia iSi-Bus, campo di misura 1 mm, con spinta a molla



IMS - measuring probe survey



IMS-1SC / IMS-1SRC

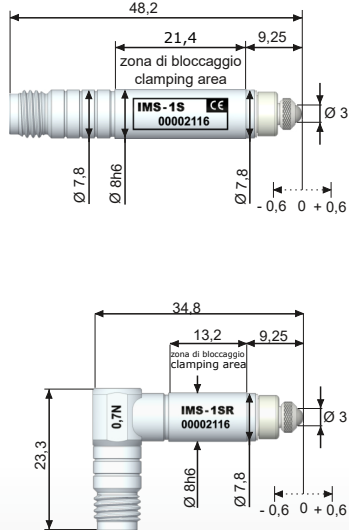
Inductive measuring probe with free of clearance ball bearing, integrated signal processing and iSi-Bus interface, measuring range 1 mm, spring pushed

Art. No. :		
F351015	IMS-1SC	1mm, 0.7N
F351204	IMS-1SC	1mm, 0.4N
F351212	IMS-1SC	1mm, 1.2N
F351216	IMS-1SC	1mm, 1.6N
F351220	IMS-1SC	1mm, 2.0N

Art. No. :		
F351017	IMS-1SRC	1mm, 0.7N
F351254	IMS-1SRC	1mm, 0.4N
F351262	IMS-1SRC	1mm, 1.2N
F351266	IMS-1SRC	1mm, 1.6N
F351270	IMS-1SRC	1mm, 2.0N

IMS-1S / IMS-1SR

Sonda di misura induttiva con cuscinetto a sfere senza gioco, elaborazione del segnale integrata e interfaccia iSi-Bus, campo di misura 1 mm, con spinta a molla



IMS-1S / IMS-1SR

Inductive measuring probe with free of clearance ball bearing, integrated signal processing and iSi-Bus interface, measuring range 1 mm, spring pushed

Art. No. :		
F351010	IMS-1S	1mm, 0.7N
F351104	IMS-1S	1mm, 0.4N
F351112	IMS-1S	1mm, 1.2N
F351116	IMS-1S	1mm, 1.6N
F351120	IMS-1S	1mm, 2.0N

Art. No. :		
F351012	IMS-1SR	1mm, 0.7N
F351154	IMS-1SR	1mm, 0.4N
F351162	IMS-1SR	1mm, 1.2N
F351166	IMS-1SR	1mm, 1.6N
F351170	IMS-1SR	1mm, 2.0N



Per ulteriori informazioni sui cavi di collegamento e sugli adattatori, vedere pagina 11

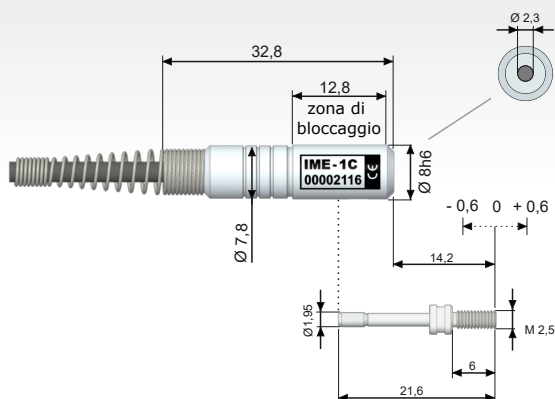
Further information about the connection cables and adapters see page 11

Sensore induttivo



IME-1C / IME-1RC

Sensore di spostamento, induttivo, con nucleo libero, elaborazione del segnale integrata e interfaccia ISi-Bus, campo di misura 1 mm, con cavo, nucleo incluso



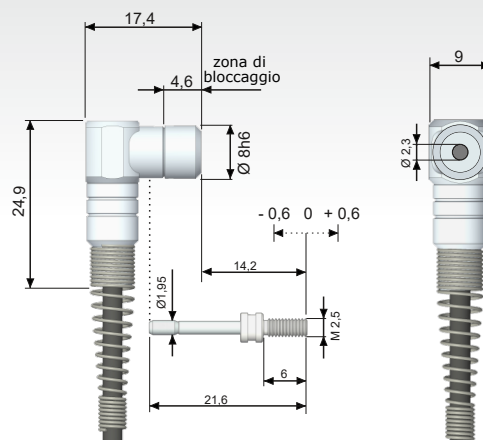
Art. No. :	
F351 515	IME-1C 1mm

Inductive displacement sensor



IME-1C / IME-1RC

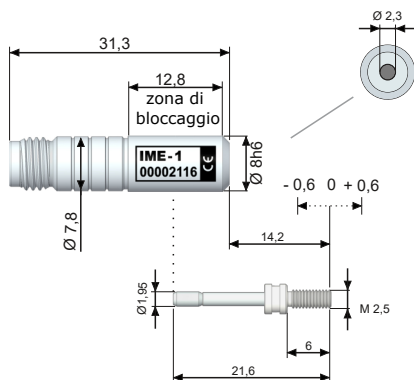
Inductive displacement sensor with free core, integrated signal processing and ISi-Bus interface, measuring range 1 mm and cable, incl. core



Art. No. :	
F351 517	IME-1RC 1mm

IME-1 / IME-1R

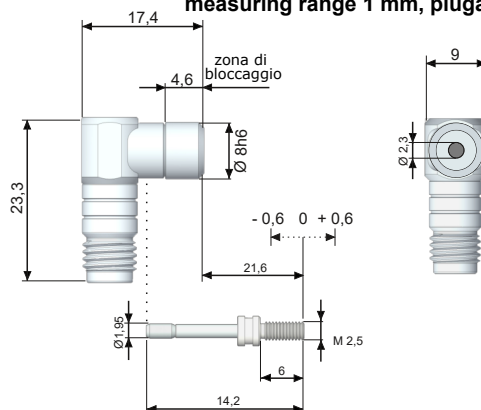
Sensore di spostamento, induttivo, con nucleo libero, elaborazione del segnale integrata e interfaccia ISi-Bus, campo di misura 1 mm, senza cavo, nucleo incluso



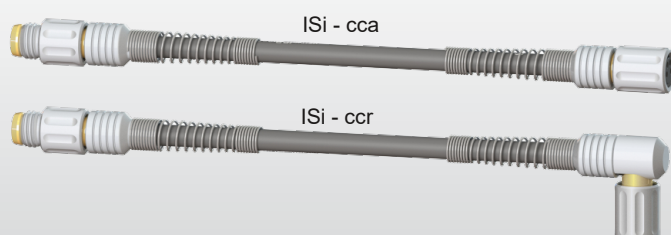
Art. No. :	
F351 510	IME-1 1mm

IME-1 / IME-1R

Inductive displacement sensor with free core, integrated signal processing and ISi-Bus interface, measuring range 1 mm, plugable, incl. core



Art. No. :	
F351 512	IME-1R 1mm



Per ulteriori informazioni sui cavi di collegamento e sugli adattatori, vedere pagina 11

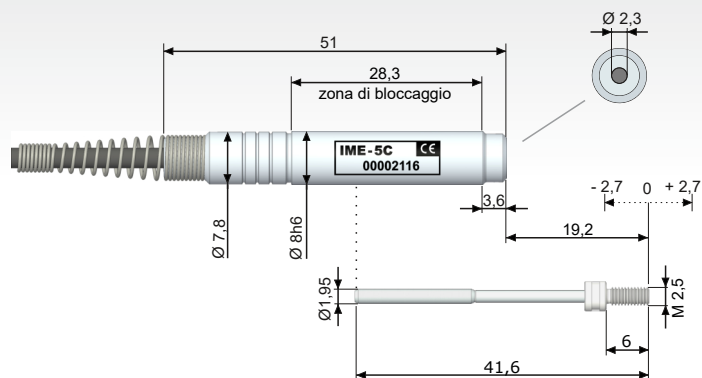
Further information about the connection cables and adapters see page 11

Sensore induttivo



IME-5C / IME-5RC

Sensore di spostamento, induttivo, con nucleo libero, elaborazione del segnale integrata e interfaccia ISi-Bus, campo di misura 5 mm, con cavo, nucleo incluso



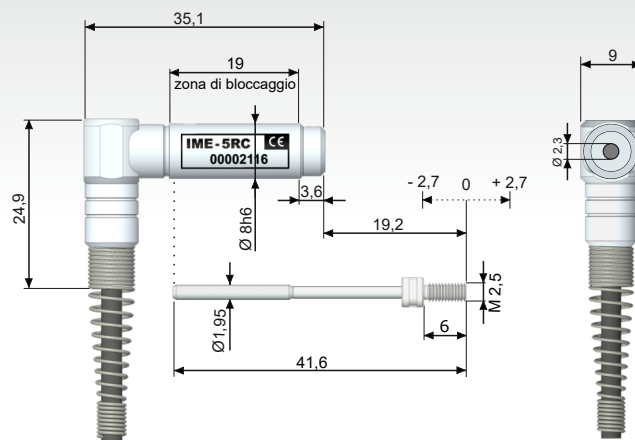
Art. No. :	
F350515	IME-5C 5mm

Inductive displacement sensor



IME-5C / IME-5RC

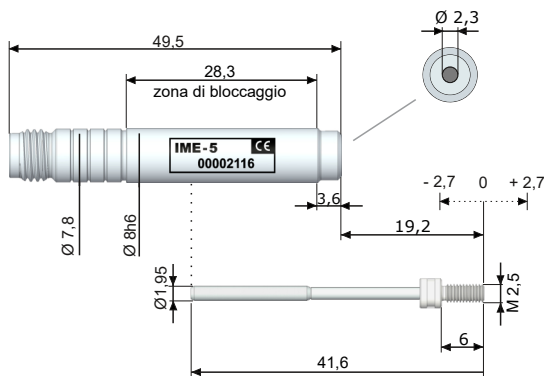
Inductive displacement sensor with free core, integrated signal processing and ISi-Bus interface, measuring range 5 mm and cable, incl. core



Art. No. :	
F350517	IME-5RC 5mm

IME-5 / IME-5R

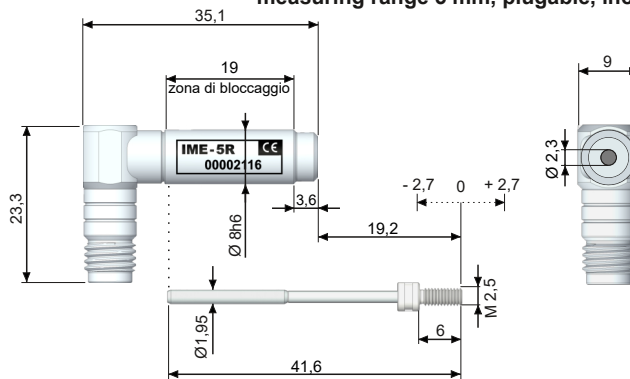
Sensore di spostamento, induttivo, con nucleo libero, elaborazione del segnale integrata e interfaccia ISi-Bus, campo di misura 5 mm, senza cavo, nucleo incluso



Art. No. :	
F350510	IME-5 5mm

IME-5 / IME-5R

Inductive displacement sensor with free core, integrated signal processing and ISi-Bus interface, measuring range 5 mm, plugable, incl. core



Art. No. :	
F350512	IME-5R 5mm



Per ulteriori informazioni sui cavi di collegamento e sugli adattatori, vedere pagina 11

Further information about the connection cables and adapters see page 11

IME - 5 attacco a soffietto
IME - 5 bellows attachment



Art. No. : F350552



Cavi di collegamento ISi-Bus

Cavi di collegamento ISi-bus, assiali



Art. No. :	F390 103	F390 110	F390 120	F390 130	F390 140	F390 150
Type :	ISi-cca 0.3m	ISi-cca 1.0m	ISi-cca 2.0m	ISi-cca 3.0m	ISi-cca 4.0m	ISi-cca 5.0m

Cavi di collegamento ISi-bus, radiali



Art. No. :	F390 303	F390 310	F390 320	F390 330	F390 340	F390 350
Type :	ISi-ccr 0.3m	ISi-ccr 1.0m	ISi-ccr 2.0m	ISi-ccr 3.0m	ISi-ccr 4.0m	ISi-ccr 5.0m

Cavi di collegamento ISi-bus, assiali, pneumatici



Art. No. :	F390 203	F390 210	F390 220	F390 230	F390 240	F390 250
Type :	ISi-ccap 0.3m	ISi-ccap 1.0m	ISi-ccap 2.0m	ISi-ccap 3.0m	ISi-ccap 4.0m	ISi-ccap 5.0m

Cavi di collegamento ISi-bus, radiali, pneumatici



Art. No. :	F390 403	F390 410	F390 420	F390 430	F390 440	F390 450
Type :	ISi-ccrp 0.3m	ISi-ccrp 1.0m	ISi-ccrp 2.0m	ISi-ccrp 3.0m	ISi-ccrp 4.0m	ISi-ccrp 5.0m

Diramatori ISi-Bus



ISi -ca1



ISi -ca2



ISi -ca4



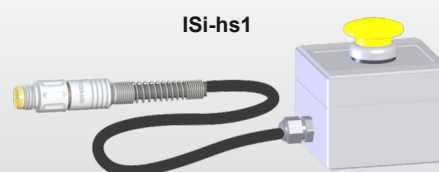
ISi -bt
(Bus terminator)

Art. No. :	F390 001	F390 002	F390 004	F390 010
Type :	ISi-ca1	ISi-ca2	ISi-ca4	ISi-bt

Pedali / Pulsanti ISi-Bus



ISi-fs1



ISi-hs1

Art. No. :	F390 610	F390 615	F390 620
Type :	ISi-fs1	ISi-fs2 (IP65)	ISi-hs1

ISi-Bus foot- and hand switches



Convertitori ISi-Bus

Convertitore per il collegamento di 1 ... 60 sonde di misura IMS/sensori IME a un'interfaccia USB.



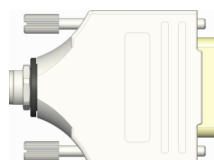
Art. No. :	F390 020
Type :	ISi-usb

Convertitore per il collegamento di una sonda di misura IMS/sensore IME a un'interfaccia Mitutoyo Digimatic.



Art. No. :	F390 030
Type :	ISi-digi

Convertitore per il collegamento di una sonda di misura IMS/sensore IME a un'interfaccia TTL (compatibile con Heidenhain).



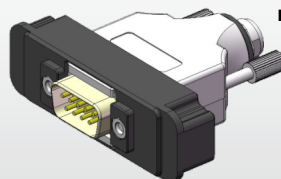
Art. No. :	F390 035
Type :	ISi-TTL

Convertitore per il collegamento di 1 ... 8 sonde di misura IMS/sensori IME a un'interfaccia RS232 (Opto RS232, MUX50).



Art. No. :	F390 040
Type :	ISi-232

Convertitore per il collegamento di una sonda di misura IMS/sensore IME a un'interfaccia RS485 (disponibile la variante Orbit-Bus).



Art. No. :	F390 045	F390 050
Type :	ISi-485	ISi-Orbit



ISi-Bus interface converter

Interface converter for connecting 1 ... 60 IMS measuring probes /IME sensors to a USB interface.

Interface converter for connecting one IMS measuring probe /IME sensor to a Mitutoyo Digimatic interface.

Interface converter for connecting one IMS measuring probe /IME sensor to a TTL interface (Heidenhain compatible).

Interface converter for connecting 1 ... 8 IMS measuring probes /IME sensors to a RS232 interface (Opto RS232, MUX50).

Interface converter for connecting one IMS measuring probe / IME sensor to a RS485 interface (Orbit-Bus variant available).

I moduli IMB-ISi1 consentono il collegamento di un bus di sensori ISi. I moduli IMB-ISi4 consentono il collegamento in parallelo di sensori con interfaccia ISi per una raccolta dati rapida e sincronizzata.



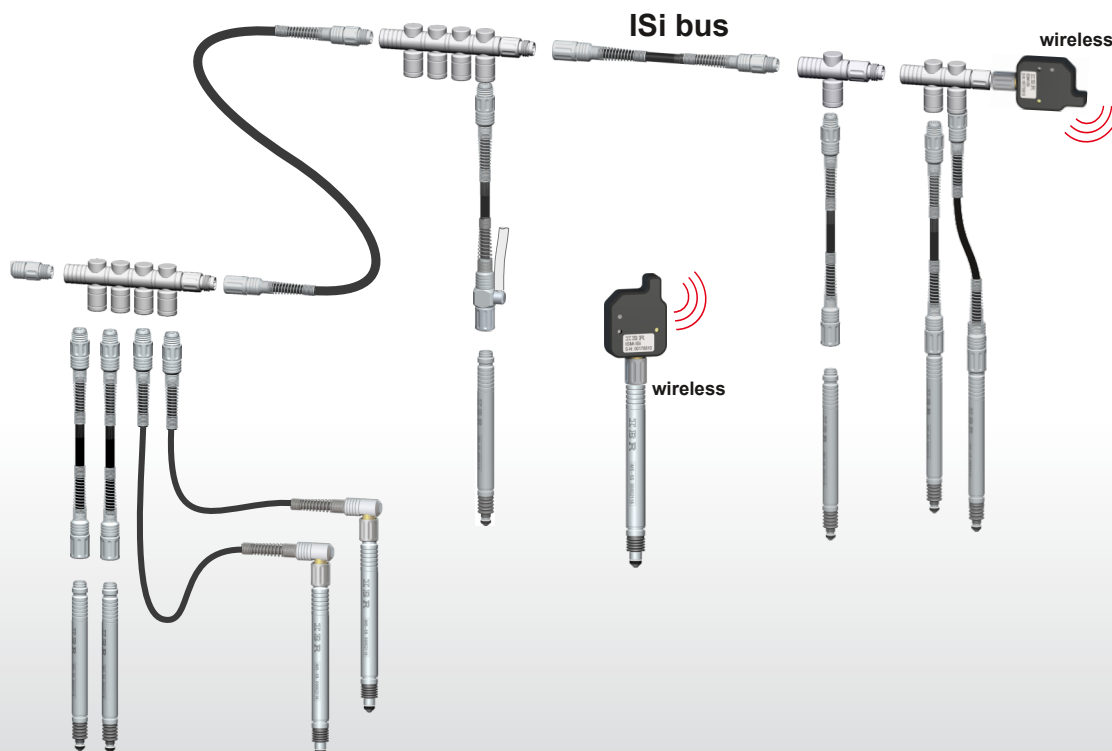
Art. No. :	F122 051	F122 054
Type :	IMB-ISi1	IMB-ISi4

**Radio Modulo ISM per sonde IMS
(10 misure/secondo, durata della
batteria fino a un anno)**



Art. No. :	F620 200
Type :	ISM-ISi

Esempio di applicazione: Bus I^{Si} con collegamento wireless



ISM radio module for IMS probes
(10 measured values / sec, batterie life
time up to one year)



ISM-usb.1

Visualizzatori per sonde IMS



Computer industriali compatti

Computer di misura compatti con interfaccia ISi-Bus per il collegamento di 1 ... 60 sonde di misura IMS / sensori IME. Interfaccia USB per il collegamento di antenne riceventi, interfaccia LAN per la connessione di rete.



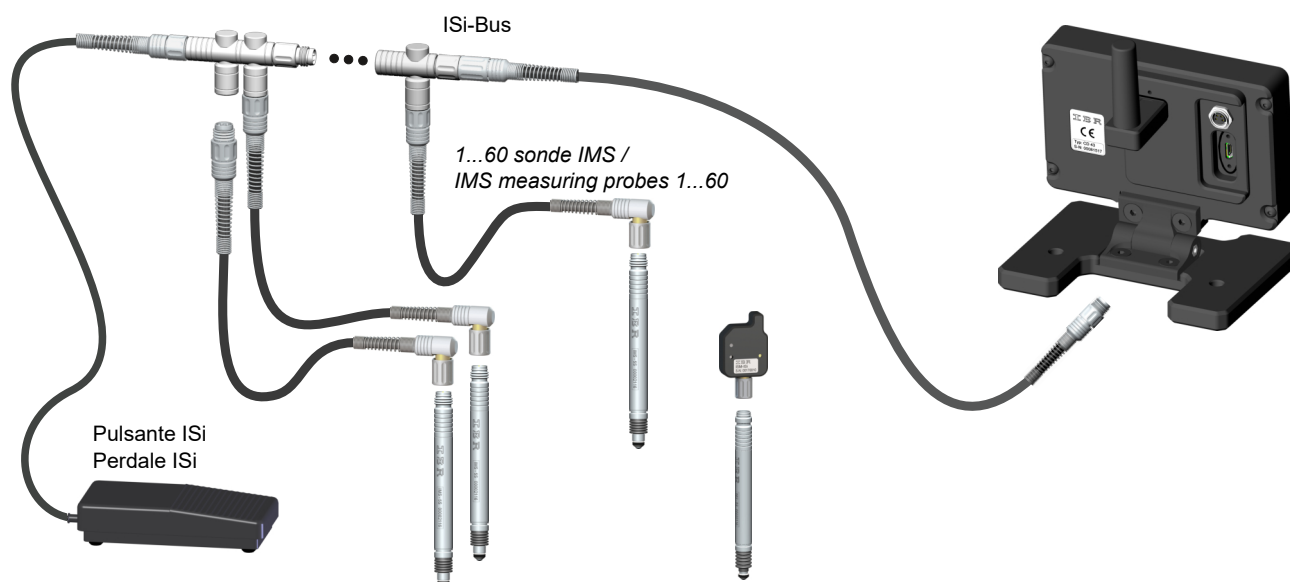
Art. No. :	F235 010	F235 050	F234 002
Type :	CD43	CD70	Mecc

Display units for IMS probes



Computer displays

Computer displays and compact measuring computers with ISi-Bus interface for connection of 1 ... 60 IMS measuring probes / IME sensors. USB interface for connection of radio receivers and LAN interface for network connection.



Visualizzatore SD1

Visualizzatore con interfaccia ISi-Bus e supporto girevole.



SD1 Sensor Display

Sensor display with ISi-Bus interface and rotatable carrier.

OEM cavi di collegamento



ISi-Bus In-System

Cavo di collegamento per master ISi-Bus



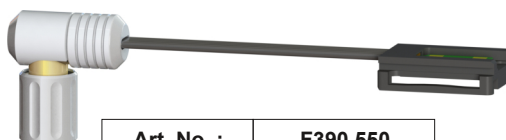
Art. No. :	F390 540
Type :	ISi-ccm.s

Adattatore per il collegamento di sensori ISi, assiale



Art. No. :	F390 545
Type :	ISi-cca.s

Adattatore per il collegamento di sensori ISi, radiale



Art. No. :	F390 550
Type :	ISi-ccr.s

Terminale Bus per chiusura sistema



Art. No. :	F390 555
Type :	ISi-bt.s

OEM connection cables



In-System ISi-Bus

Connection cable to connect the ISi-Bus master

Connection adapter for connecting ISi sensors, axial

Connection adapter for connecting ISi sensors, radial

Bus terminator to terminate the ISi-Bus

Applicazione In-System / Application In-System

Radio modulo /
radio module ISM-H1

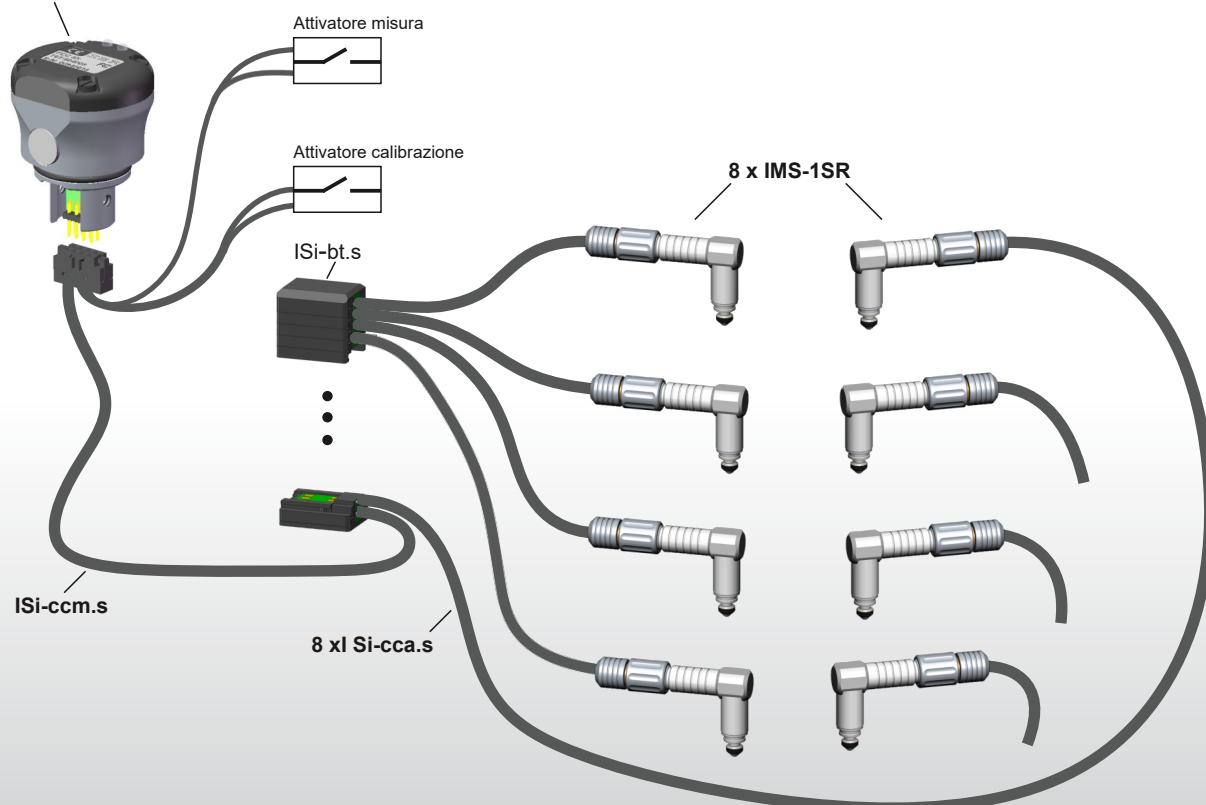
Attivatore misura

Attivatore calibrazione

ISi-bt.s

8 x ISi-cca.s

ISi-ccm.s



IBR_DDK.DLL

Device Driver Kit universale, per il collegamento degli strumenti e delle interfacce IBR in programmi Windows XP.....11 e CE (esempi per VC++, VB, LabView, Delphi, ...).

Universal Device DriverKit for linking all IBR measuring and interface instruments in Windows XP...11and CE programs. (Examples for VC++, VB, LabView, Delphi, ...)

IBR_VCP

Programma di simulazione di porte COM per pacchetti software senza supporto USB, LAN e WLAN. Simulazione di vecchi multiplexer (ad es. MUX50, MUX10, ...) per pacchetti software senza supporto IMBus, ISI-Bus o ISM.

COM port simulation program for software packages without USB, LAN and WLAN support. Simulation of older multiplexers (e.g. MUX50, MUX10, ...) for software packages without IMBus, ISI-BusorISMsupport.

IBREXDLL

Cartella di lavoro Excel per importare, visualizzare e analizzare dati di misura in MS-Excel.

Excel-Workbook for readingin, visualisingand analysing measurementdata in MS-Excel.

ComGage

Software per la metrologia e il controllo statistico di processo in produzione.

Software for metrology and statistical process control in manufacturing facilities.

WebGage Light

Con l'applicazione browser WebGage Light è possibile raccogliere dati di misura e risolvere semplici applicazioni di misura.

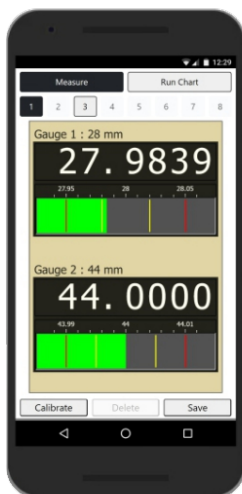
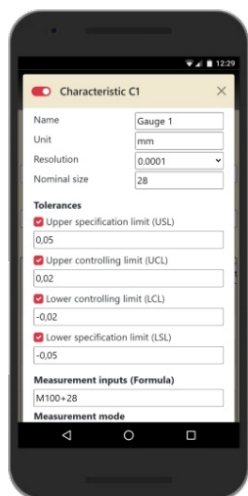
WebGage Light è utilizzabile su qualsiasi smartphone o tablet PC (iOS, Android, ...) e su qualsiasi computer fisso dotato di un browser web.

I sensori (ad esempio le sonde IMS) sono collegati tramite i gateway IMB-lan, IMB-wla o ISM-wla.

The browser application WebGage Light allows the collection of measured data and the solving of measuring applications.

WebGage Light is usable on each Smartphone or TabletPC (iOS, Android, ...) as well on each stationary computer with a web browser.

The sensors (e.g. IMS probes) are connected via IMB-lan, IMB-wla or ISM-wla gateway.



Gli strumenti di misura e di interfacciamento IBR funzionano già con i pacchetti software più utilizzati, ad esempio:

SAP, LabView, Mitutoyo, Q-DAS, Asi DataMyte, Babtec, IBS, Böhme & Weihs, Rectron, Gewatec, IBSeteq, Sinic, Pickert & Partner, ...

IBR measuringand interface instrumentsare already working with well-known software packages like e.g.:



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Fax.: +39 02 38003624
E-Mail: grg@grgsas.net
Web: <http://www.grgsas.net>