

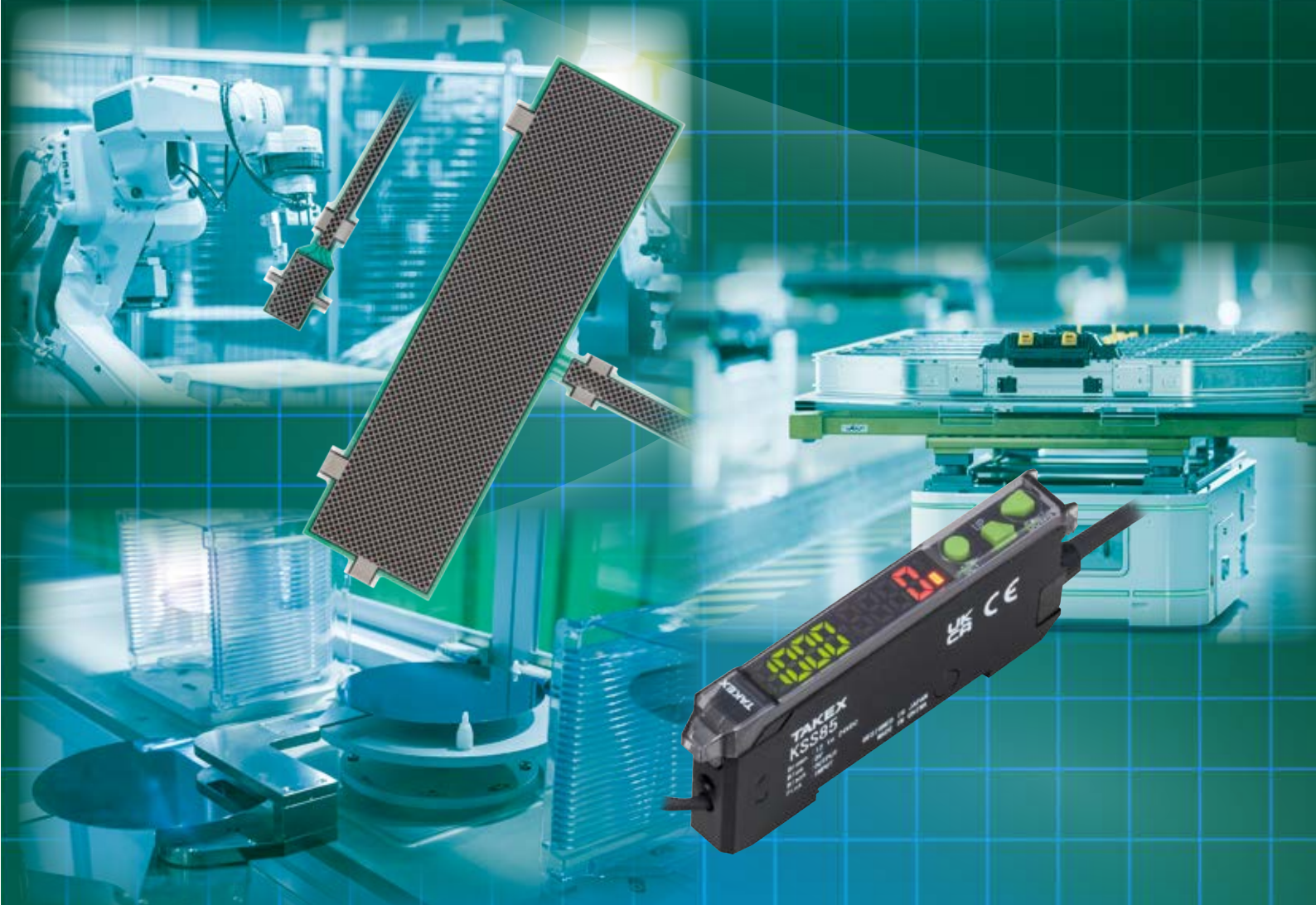
TAKEX

Sensore a foglio sensibile alla forza

Serie KSS85



**Basta attaccare il foglio
per garantire un rilevamento affidabile
degli oggetti**



Brevetto in corso

Sensore a foglio sensibile con posizione di installazione versatile.
Metodo di contatto non influenzato da alcun colore, materiale o forma.
Rilevamento stabile indipendentemente dalle luci ambientali o da altri sensori.

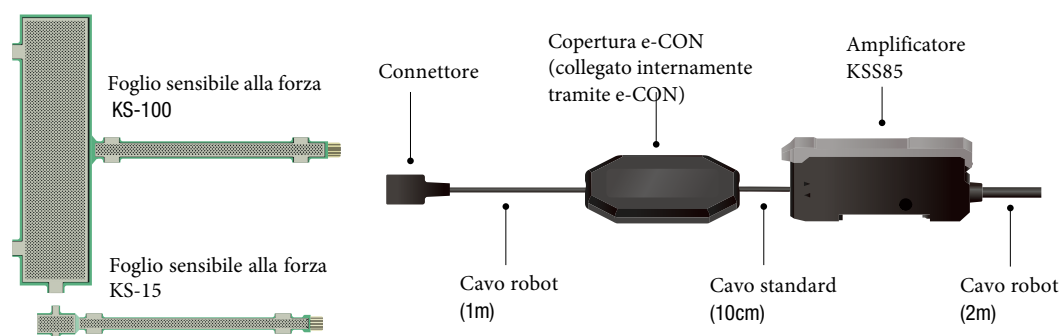
“Just Sticking”

Ideale per prese robot e
per il controllo della presenza

Un sensore versatile per qualsiasi oggetto e luogo di installazione

Configurazione del sistema

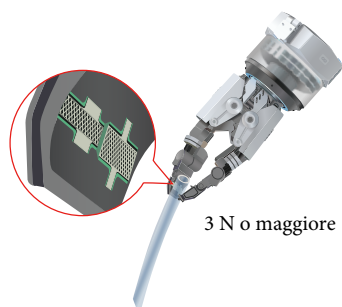
Assicurarsi di collegare il sensore a foglio sensibile alla forza al connettore.
Sono disponibili due tipi di fogli sensibili alla forza: di tipo piccolo e di tipo area.
I cavi robotizzati vengono applicati alle parti mobili.



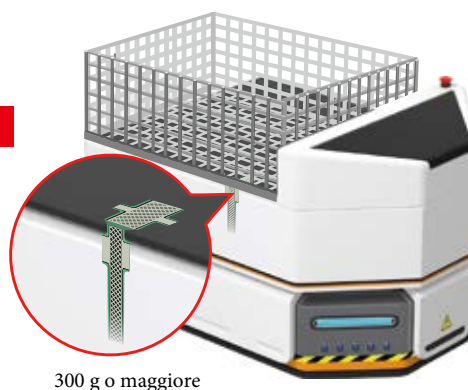
Metodo di contatto

Rilevamento di carico o pressione tramite il sensore a foglio sensibile alla forza, indipendentemente dal colore, dal materiale o dalla forma dell'oggetto da rilevare - Carico (pressione): 3 N (300 g) o più

Presenza



Presenza

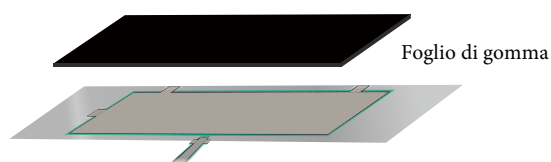


Installazione semplice "Just Sticking"

Installazione più facile rispetto a qualsiasi altro sensore

*Utilizzare un foglio di gomma su un foglio sensibile alla forza

*Foglio di gomma consigliato : spessore 1 mm, materiale CR e durezza shore 60A

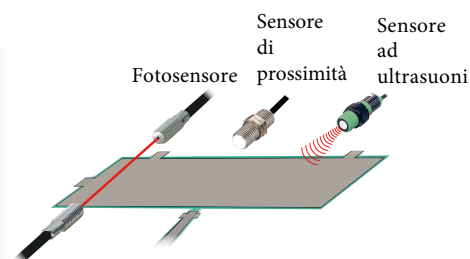


Utilizzabile con altri sensori

Rilevamento stabile indipendentemente dalle luci ambientali o da altri sensori



Non influenzato dall'illuminazione





Sensore a foglio sensibile alla forza

Serie KSS85



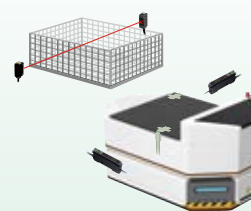
Conferma della presa dalle mani dei robot

Prevenire le interferenze con altri sensori fotoelettrici



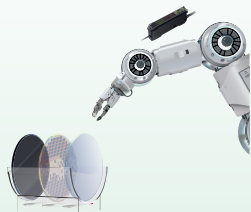
Rilevamento della presenza di pallet a rete

Rilevamento affidabile anche di oggetti come pallet a rete



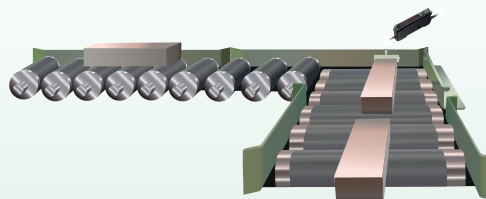
Rilevamento di oggetti con varie trasparenze

Il rilevamento a contatto assicura una misurazione indipendente dalle variazioni di colore



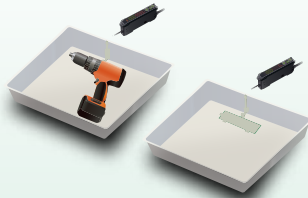
Conferma di arrivo del legname

Basta attaccarlo alla superficie delle pareti



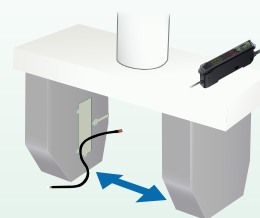
Rilevamento dell'utensile nel vassoio

Installazione flessibile per adattarsi allo strumento nel vassoio



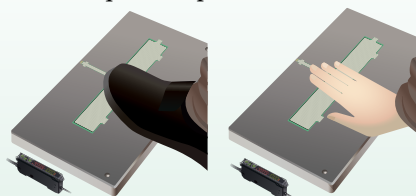
Conferma della presa del cavo o del tubo

Rileva in modo affidabile l'oggetto che passa in posizione mobile



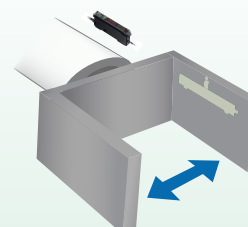
Interruttore di avvio

Forma del foglio che consente l'installazione in qualsiasi posizione



Controllo della presa di varie mani robotiche

Sensore di area montato su prese robot



SPECIFICATION

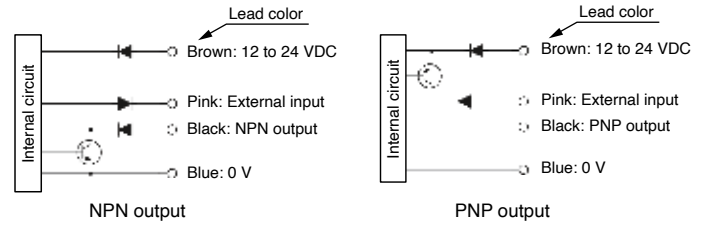
Model	Force sensitive sheet sensor (amplifier: KSS85, force sensitive sheet: KS-100, KS-15)
Power supply	12 to 24 VDC, Ripple: 10% or less
Current consumption	at 24 V DC Normal mode: 600 mW (current consumption 25 mA or less) ECO mode: 480 mW (current consumption 20 mA or less)
Detection sensitivity	300 g = approx. 3 N (reference value)
Output mode	NPN/PNP switchable NPN open collector output Load current: 100 mA (30 V DC) or less, residual voltage: 2 V or less PNP open collector output Load current: 100 mA (30 V DC) or less, residual voltage: 2 V or less
Operation mode	NO (Normally Open) / NC (Normally Closed) switchable
Timer	ON delay / OFF delay / ON/OFF delay / One shot / Timer off Delay timer: 1 ms to 9999 ms (can be set at intervals of 1 ms)
Response time	Without load → with load: 1 ms, with load → without load: 100 ms
Indicator	Operation indicator, setting indicator, NO/NC indicator: orange LED
Display	Operation level display: 4-digit red LED, threshold indicator: 4-digit green LED
Switch	[SET/TEACHING] button: teaching / setting [UP/DOWN] button: adjust threshold value / select settings
Protection circuit	Power reverse connection / reverse output / output short circuit protection
Sensitivity setting	Maximum sensitivity teaching
Sensitivity adjustment function	Equipped (automatic adjustment / manual adjustment)
Connection method	Cord drawing type (φ4.2 mm o.d.) 0.2 mm ² x 4-core, 2 m (robot cable)
Weight	KSS85 (amplifier): approx. 100 g, KS-100: approx. 4 g, KS-15: approx. 1 g
Accessory	Instruction manual

*Note 1 million operations min. Press 10 seconds at 300 g and release 10 seconds
1,000 operations min. Press 10 seconds at 1 t and release 10 seconds

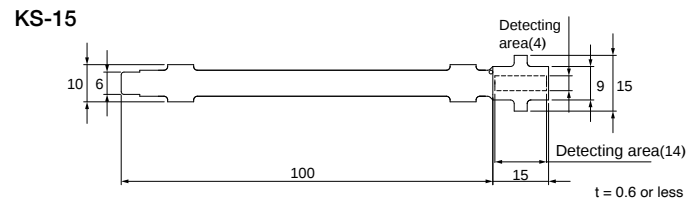
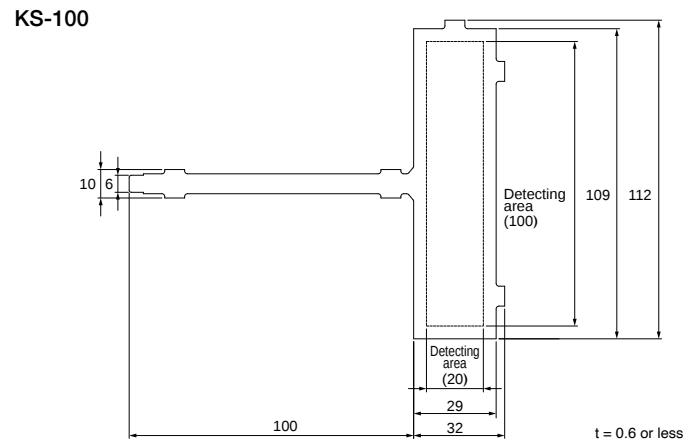
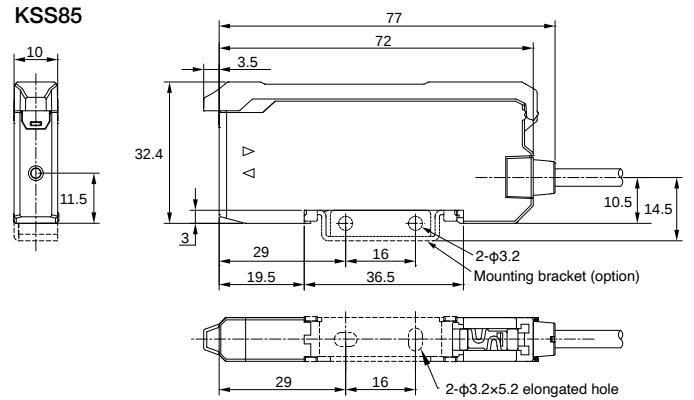
ENVIRONMENTAL SPECIFICATION

Ambient temperature	Amplifier: -25 to +55°C, pressure-sensitive sheet: 0 to +55°C (non-freezing)
Ambient humidity	35 to 85% RH (non-condensing)
Protection structure	IP40
Vibration	10 to 55 Hz, double amplitude 1.5 mm, X, Y, Z directions, 2 hours each
Shock	500 m/s ² , 3 times each in X, Y and Z directions
Dielectric withstand voltage	500 VAC for 1 min
Insulation resistance	At least 20MΩ with 500 VDC Megger

CONNECTION



DIMENSIONS (in mm)



CAUTION

- This product is designed for industrial applications to detect a various kinds of objects. It has no function to prevent disasters, accidents, death or injuries.
- TAKEX will not held responsible for any damage or loss incurred due to accidents, faulty installation, abuse, misuse, improper maintenance or acts of God including lightning surge.
- This product cannot be used as safety equipment.
- This product is designed and manufactured for industrial use. It cannot be used where there is a requirement for a high degree of reliability or considerable care or attention to safety.
- Read this instruction manual carefully and use the product properly according to it.
- This instruction manual including the specifications and dimensions may be subject to change without notice.



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