Anritsu
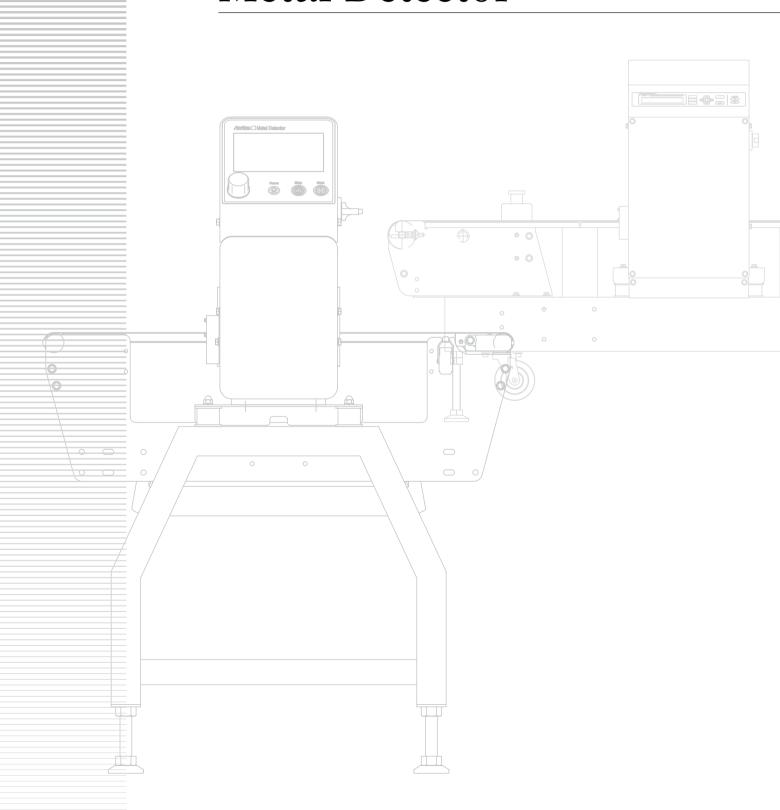
Metal Detector

Metal Detector

Lineup

High Sensitivity

duw-h Series

Dual-frequency system determines best frequencies to maximize sensitivity for both ferrous and non-ferrous metals simultaneously.
Higher sensitivity and stability were achieved by High Sensitivity Setting (HIS) function and a detection head featuring vibration and electric noise resistant.

For Large Products

Anritsu's Dual Wave Technology maximizes detection of ferrous and non-ferrous metals.
The large aperture infeed is suitable for products in bulk flow or large bags and cartons.
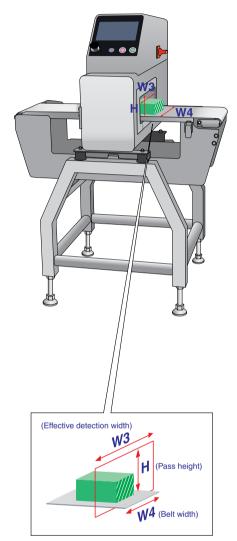
For Aluminum Packaged Products

Suitable for aluminum-packaged products. The lineup includes models for thin products such as retort-pouched foods and for thicker products such as packed tea leaves and confectionery.

Model Selection List

(Effective detection width)
W3
H (Pass height)
W4 (Belt width)

			Model	Detection area (mm)		Page
Compact type	High Sensitivity	Waterproof	KDS8102BW	H=45, W4=140	W3=210, H, W4	4
			KDS8103BW	H=75, W4=140		
			KDS8104BW	H=95, W4=140		
		Non-waterproof	KDS8102BF	H=50, W4=160		
			KDS8103BF	H=80, W4=160		
			KDS8104BF	H=100, W4=160		
		Waterproof	KDS8112BW	H=45, W4=230	W3=300, H, W4	5, 6
			KDS8113BW	H=75, W4=230		
			KDS8115BW	H=115, W4=230		
			KDS8116BW	H=175, W4=230		
		Non-waterproof	KDS8112BF	H=50, W4=250		
			KDS8113BF	H=80, W4=250		
			KDS8115BF	H=120, W4=250		
			KDS8116BF	H=180, W4=250		
Wide type		Waterproof	KDS8122BW	H=45	W3=450, H, W4=350	7, 8
			KDS8124BW	H=95		
			KDS8125BW	H=125		
			KDS8126BW	H=175		
		Non-waterproof	KDS8122BF	H=50		
			KDS8124BF	H=100		
			KDS8125BF	H=130		
			KDS8126BF	H=180		
Large type	For Large Products	Waterproof / Non-waterproof	KD8132A/KD8132AW	H=100	W3=650, H, W4=550	9
			KD8133A/KD8133AW	H=150		
			KD8134A/KD8134AW	H=200		
			KD8135A/KD8135AW	H=250		
			KD8136A/KD8136AW	H=300		
			KD8137A/KD8137AW	H=350		
			KD8138A/KD8138AW	H=400		
Aluminum Packaged Products	For Aluminum Packaged Products	Waterproof	KD8200AW	W3, W4=230	30 to 60, H [1], W3、W4	10
			KD8220AW	W3, W4=400		
			KD821AHW	W3=250, W4=220	W3, 30 to 130, H [2], W4	11
		Non-waterproof	KD821AH	W3=250, W4=220		

W3: Effective detection width
W4: Belt width
1: The pass height must be one of 30, 40, 50, or 60 mm.
2: The pass height must be one of 30, 55, 80, 105, or 130 mm.

High Sensitivity

Maximum pass width: 210 mm

KDS8102BF / BW

Pass height: 50 mm (KDS8102BF)
45 mm (KDS8102BW)
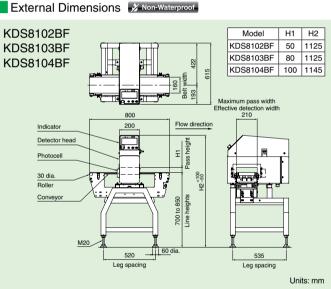
KDS8103BF / BW

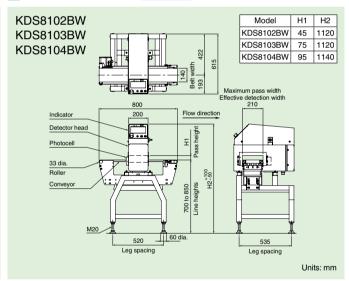Pass height: 80 mm (KDS8103BF)
75 mm (KDS8103BW)

KDS8104BF / BW

Pass height: 100 mm (KDS8104BF)
95 mm (KDS8104BW)

KDS8102BW

■ External Dimensions Non-Waterproof

KDS8102BF
KDS8103BF
KDS8104BF

Model	H1	H2
KDS8102BF	50	1125
KDS8103BF	80	1125
KDS8104BF	100	1145

Maximum pass width
Effective detection width
210

Indicator
Detector head
Photocell
30 dia.
Roller
Conveyor
Flow direction
Pass height
700 to 850 Line heights
M20
520
60 dia.
Leg spacing
535
Leg spacing

Units: mm

■ External Dimensions Waterproof

KDS8102BW
KDS8103BW
KDS8104BW

Model	H1	H2
KDS8102BW	45	1120
KDS8103BW	75	1120
KDS8104BW	95	1140

Maximum pass width
Effective detection width
210

Indicator
Detector head
Photocell
33 dia.
Roller
Conveyor
Flow direction
Pass height
700 to 850 Line heights
M20
520
60 dia.
Leg spacing
535
Leg spacing

Units: mm

■ Specifications

Model	KDS8102BF	KDS8102BW	KDS8103BF	KDS8103BW	KDS8104BF	KDS8104BW
Pass height	50 mm	45 mm	80 mm	75 mm	100 mm	95 mm
Maximum pass width	210 mm					
Belt width	160 mm	140 mm	160 mm	140 mm	160 mm	140 mm
Display	7-inch color TFT LCD					
Operation method	Touch panel (Start, Stop, and Home are direct push buttons)					
Preset memory	Maximum 200					
Product packaging	Both general and aluminum-evaporated film packaged products					
Detection method	Simultaneous 2-frequency magnetization detection method					
Belt speed	10 to 90 m/min (variable speed depending on Product No.)					
Maximum product weight [1]	5 kg [BF (Non-waterproof) types can support up to 10 kg and BW (waterproof) types can support up to 15 kg as an option at the belt speed of 5 to 49 m/min.]					
Metal detection	Rejection signal output and beep, or belt stop and beep					
Power requirements	100 to 120 Vac +10% −15% or 200 to 240 Vac +10% −15%, single phase, 50/60 Hz, 200 VA, rush current 62 A (typ.) (20 ms or less)					
Mass	90 kg	92 kg	90 kg	92 kg	92 kg	94 kg
Environmental conditions	0 to 40°C, relative humidity 30 to 85%, non-condensing					
Protection class	IP30 compliance	IP66 compliance	IP30 compliance	IP66 compliance	IP30 compliance	IP66 compliance
Exterior	BF (Non-waterproof) type: painted (Indicator and detector head: stainless steel (SUS304)) BW (Waterproof) type: stainless steel (SUS304)					
Data output	USB port (USB2.0), Ethernet interface (10BASE-T, 100BASE-TX)					

1: Sum total of product weight on the conveyor.
Note: The shape and size (length, width and height) of products to can be inspected depend on the rejector type.
Note: The noise level of the metal detectors does not exceed 70 dB (A).

High Sensitivity

Maximum pass width: 300 mm

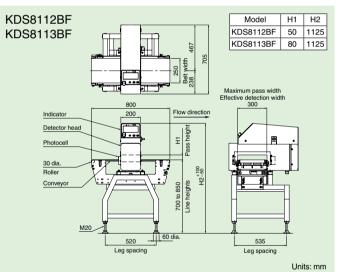## KDS8112BF / BW

Pass height: 50 mm (KDS8112BF)
　　　　　　45 mm (KDS8112BW)

KDS8113BF / BW
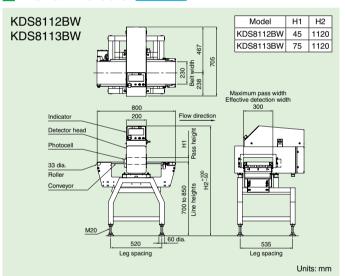
Pass height: 80 mm (KDS8113BF)
　　　　　　75 mm (KDS8113BW)

KDS8112BW

External Dimensions Non-Waterproof

KDS8112BF
KDS8113BF

Model	H1	H2
KDS8112BF	50	1125
KDS8113BF	80	1125

Indicator
Detector head
Photocell
30 dia. Roller
Conveyor

Flow direction

Maximum pass width
Effective detection width
300

Units: mm

External Dimensions Waterproof

KDS8112BW
KDS8113BW

Model	H1	H2
KDS8112BW	45	1120
KDS8113BW	75	1120

Indicator
Detector head
Photocell
33 dia. Roller
Conveyor

Flow direction

Maximum pass width
Effective detection width
300

Units: mm

Specifications

Model	KDS8112BF	KDS8112BW	KDS8113BF	KDS8113BW
Pass height	50 mm	45 mm	80 mm	75 mm
Maximum pass width	300 mm			
Belt width	250 mm	230 mm	250 mm	230 mm
Display	7-inch color TFT LCD			
Operation method	Touch panel (Start, Stop, and Home are direct push buttons)			
Preset memory	Maximum 200			
Product packaging	Both general and aluminum-evaporated film packaged products			
Detection method	Simultaneous 2-frequency magnetization detection method			
Belt speed	10 to 90 m/min (variable speed depending on Product No.)			
Maximum product weight [1]	5 kg [BF (Non-waterproof) types can support up to 10 kg and BW (waterproof) types can support up to 15 kg as an option at the belt speed of 5 to 49 m/min.]			
Metal detection	Rejection signal output and beep, or belt stop and beep			
Power requirements	100 to 120 Vac +10% −15% or 200 to 240 Vac +10% −15%, single phase, 50/60 Hz, 200 VA, rush current 62 A (typ.) (20 ms or less)			
Mass	97 kg	102 kg	97 kg	102 kg
Environmental conditions	0 to 40°C, relative humidity 30 to 85%, non-condensing			
Protection class	IP30 compliance	IP66 compliance	IP30 compliance	IP66 compliance
Exterior	BF (Non-waterproof) type: painted (Indicator and detector head: stainless steel (SUS304)) BW (Waterproof) type: stainless steel (SUS304)			
Data output	USB port (USB2.0), Ethernet interface (10BASE-T, 100BASE-TX)			

1: Sum total of product weight on the conveyor.
Note: The shape and size (length, width and height) of products to can be inspected depend on the rejector type.
Note: The noise level of the metal detectors does not exceed 70 dB (A).

High Sensitivity

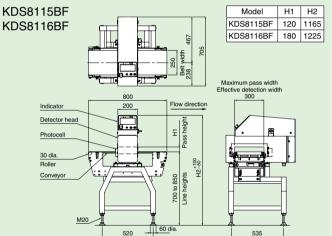Maximum pass width: 300 mm

KDS8115BF / BW

Pass height: 120 mm (KDS8115BF)
　　　　　　 115 mm (KDS8115BW)

KDS8116BF / BW

Pass height: 180 mm (KDS8116BF)
　　　　　　 175 mm (KDS8116BW)
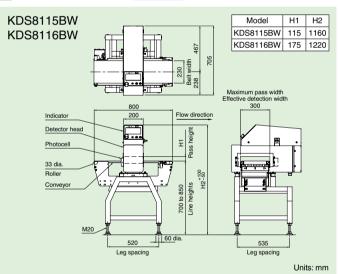
■ External Dimensions 🚫 Non-Waterproof

KDS8115BF
KDS8116BF

Model	H1	H2
KDS8115BF	120	1165
KDS8116BF	180	1225

■ External Dimensions 💧 Waterproof

KDS8115BW
KDS8116BW

Model	H1	H2
KDS8115BW	115	1160
KDS8116BW	175	1220

Units: mm

■ Specifications

Model	KDS8115BF	KDS8115BW	KDS8116BF	KDS8116BW
Pass height	120 mm	115 mm	180 mm	175 mm
Maximum pass width	300 mm			
Belt width	250 mm	230 mm	250 mm	230 mm
Display	7-inch color TFT LCD			
Operation method	Touch panel (Start, Stop, and Home are direct push buttons)			
Preset memory	Maximum 200			
Product packaging	Both general and aluminum-evaporated film packaged products			
Detection method	Simultaneous 2-frequency magnetization detection method			
Belt speed	10 to 90 m/min (variable speed depending on Product No.)			
Maximum product weight [1]	5 kg [BF (Non-waterproof) types can support up to 10 kg and BW (waterproof) types can support up to 15 kg as an option at the belt speed of 5 to 49 m/min.]			
Metal detection	Rejection signal output and beep, or belt stop and beep			
Power requirements	100 to 120 Vac +10% −15% or 200 to 240 Vac +10% −15%, single phase, 50/60 Hz, 200 VA, rush current 62 A (typ.) (20 ms or less)			
Mass	100 kg	105 kg	103 kg	108 kg
Environmental conditions	0 to 40°C, relative humidity 30 to 85%, non-condensing			
Protection class	IP30 compliance	IP66 compliance	IP30 compliance	IP66 compliance
Exterior	BF (Non-waterproof) type: painted (Indicator and detector head: stainless steel (SUS304)) BW (Waterproof) type: stainless steel (SUS304)			
Data output	USB port (USB2.0), Ethernet interface (10BASE-T, 100BASE-TX)			

1: Sum total of product weight on the conveyor.
Note: The shape and size (length, width and height) of products to can be inspected depend on the rejector type.
Note: The noise level of the metal detectors does not exceed 70 dB (A).

High Sensitivity

Maximum pass width: 450 mm

KDS8122BF / BW

Pass height: 50 mm (KDS8122BF)
45 mm (KDS8122BW)

KDS8124BF / BW

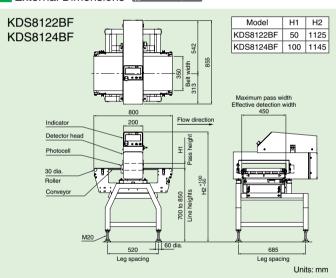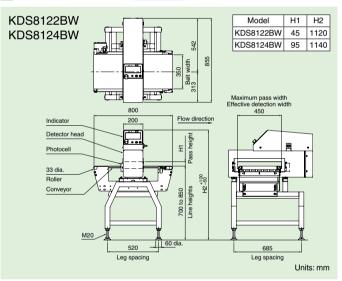Pass height: 100 mm (KDS8124BF)
95 mm (KDS8124BW)

KDS8122BW

■ External Dimensions Non-Waterproof

KDS8122BF
KDS8124BF

Model	H1	H2
KDS8122BF	50	1125
KDS8124BF	100	1145

Maximum pass width
Effective detection width
450

Indicator
Detector head
Photocell
30 dia.
Roller
Conveyor

Flow direction

800
200

H1
Pass height
$H2^{+100}_{-50}$

700 to 850
Line heights

M20
520
60 dia.
Leg spacing

685
Leg spacing

Units: mm

■ External Dimensions Waterproof

KDS8122BW
KDS8124BW

Model	H1	H2
KDS8122BW	45	1120
KDS8124BW	95	1140

Maximum pass width
Effective detection width
450

Indicator
Detector head
Photocell
33 dia.
Roller
Conveyor

Flow direction

800
200

H1
Pass height
$H2^{+100}_{-50}$

700 to 850
Line heights

M20
520
60 dia.
Leg spacing

685
Leg spacing

Units: mm

■ Specifications

Model	KDS8122BF	KDS8122BW	KDS8124BF	KDS8124BW
Pass height	50 mm	45 mm	100 mm	95 mm
Maximum pass width	450 mm			
Belt width	350 mm			
Display	7-inch color TFT LCD			
Operation method	Touch panel (Start, Stop, and Home are direct push buttons)			
Preset memory	Maximum 200			
Product packaging	Both general and aluminum-evaporated film packaged products			
Detection method	Simultaneous 2-frequency magnetization detection method			
Belt speed	10 to 90 m/min (variable speed depending on Product No.)			
Maximum product weight [1]	5 kg [BF (Non-waterproof) types can support up to 10 kg and BW (waterproof) types can support up to 15 kg as an option at the belt speed of 5 to 49 m/min.]			
Metal detection	Rejection signal output and beep, or belt stop and beep			
Power requirements	100 to 120 Vac +10% −15% or 200 to 240 Vac +10% −15%, single phase, 50/60 Hz, 200 VA, rush current 62 A (typ.) (20 ms or less)			
Mass	112 kg	117 kg	117 kg	122 kg
Environmental conditions	0 to 40°C, relative humidity 30 to 85%, non-condensing			
Protection class	IP30 compliance	IP66 compliance	IP30 compliance	IP66 compliance
Exterior	BF (Non-waterproof) type: painted (Indicator and detector head: stainless steel (SUS304)) BW (Waterproof) type: stainless steel (SUS304)			
Data output	USB port (USB2.0), Ethernet interface (10BASE-T, 100BASE-TX)			

1: Sum total of product weight on the conveyor.
Note: The shape and size (length, width and height) of products to can be inspected depend on the rejector type.
Note: The noise level of the metal detectors does not exceed 70 dB (A).

High Sensitivity

Maximum pass width: 450 mm

duw-h series

For Large Products

For Aluminum Packaged Products
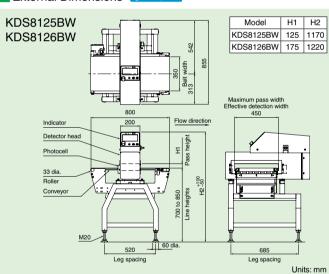
KDS8125BF / BW

Pass height: 130 mm (KDS8125BF)
125 mm (KDS8125BW)

KDS8126BF / BW

Pass height: 180 mm (KDS8126BF)
175 mm (KDS8126BW)

External Dimensions 🔧 Non-Waterproof

KDS8125BF
KDS8126BF

Model	H1	H2
KDS8125BF	130	1175
KDS8126BF	180	1225

Indicator
Detector head
Photocell
30 dia.
Roller
Conveyor

800
200
Flow direction
Maximum pass width
Effective detection width
450

542
350
Belt width
313
855
H1 Pass height
H2 $^{+100}_{-50}$
700 to 850 Line heights

M20
520
60 dia.
Leg spacing

685
Leg spacing

Units: mm

External Dimensions 💧 Waterproof

KDS8125BW
KDS8126BW

Model	H1	H2
KDS8125BW	125	1170
KDS8126BW	175	1220

Indicator
Detector head
Photocell
33 dia.
Roller
Conveyor

800
200
Flow direction
Maximum pass width
Effective detection width
450

542
350
Belt width
313
855
H1 Pass height
H2 $^{+100}_{-50}$
700 to 850 Line heights

M20
520
60 dia.
Leg spacing

685
Leg spacing

Units: mm

Specifications

Model	KDS8125BF	KDS8125BW	KDS8126BF	KDS8126BW
Pass height	130 mm	125 mm	180 mm	175 mm
Maximum pass width	450 mm			
Belt width	350 mm			
Display	7-inch color TFT LCD			
Operation method	Touch panel (Start, Stop, and Home are direct push buttons)			
Preset memory	Maximum 200			
Product packaging	Both general and aluminum-evaporated film packaged products			
Detection method	Simultaneous 2-frequency magnetization detection method			
Belt speed	10 to 90 m/min (variable speed depending on Product No.)			
Maximum product weight [1]	5 kg [BF (Non-waterproof) types can support up to 10 kg and BW (waterproof) types can support up to 15 kg as an option at the belt speed of 5 to 49 m/min.]			
Metal detection	Rejection signal output and beep, or belt stop and beep			
Power requirements	100 to 120 Vac +10% –15% or 200 to 240 Vac +10% –15%, single phase, 50/60 Hz, 200 VA, rush current 62 A (typ.) (20 ms or less)			
Mass	120 kg	125 kg	123 kg	128 kg
Environmental conditions	0 to 40°C, relative humidity 30 to 85%, non-condensing			
Protection class	IP30 compliance	IP66 compliance	IP30 compliance	IP66 compliance
Exterior	BF (Non-waterproof) type: painted (Indicator and detector head: stainless steel (SUS304)) BW (Waterproof) type: stainless steel (SUS304)			
Data output	USB port (USB2.0), Ethernet interface (10BASE-T, 100BASE-TX)			

1: Sum total of product weight on the conveyor.
Note: The shape and size (length, width and height) of products to can be inspected depend on the rejector type.
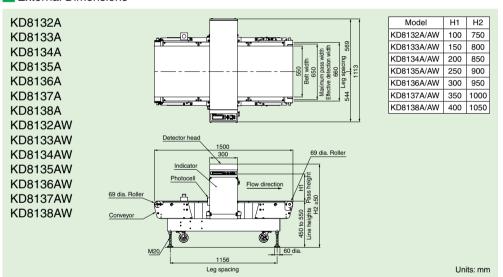Note: The noise level of the metal detectors does not exceed 70 dB (A).

Standard [**Large type**]

Maximum pass width: 650 mm

KD813☐A / AW

Pass height: 100 mm, 150 mm, 200 mm, 250 mm
300 mm, 350 mm, 400 mm

KD8133AW

■ External Dimensions

KD8132A
KD8133A
KD8134A
KD8135A
KD8136A
KD8137A
KD8138A
KD8132AW
KD8133AW
KD8134AW
KD8135AW
KD8136AW
KD8137AW
KD8138AW

Model	H1	H2
KD8132A/AW	100	750
KD8133A/AW	150	800
KD8134A/AW	200	850
KD8135A/AW	250	900
KD8136A/AW	300	950
KD8137A/AW	350	1000
KD8138A/AW	400	1050

Units: mm

■ Specifications

Model	KD8132A KD8132AW	KD8133A KD8133AW	KD8134A KD8134AW	KD8135A KD8135AW	KD8136A KD8136AW	KD8137A KD8137AW	KD8138A KD8138AW
Pass height	100 mm	150 mm	200 mm	250 mm	300 mm	350 mm	400 mm
Maximum pass width	650 mm						
Belt width	550 mm						
Display	STN LCD						
Operation method	Flat panel key						
Preset memory	Maximum 100						
Product packaging	Both general and aluminum-evaporated film packaged products						
Detection method	Simultaneous 2-frequency magnetization detection method						
Belt speed	27 m/min (50 Hz), 33 m/min (60 Hz)						
Maximum product weight [1]	50 kg						
Metal detection	Rejection signal output and beep, or belt stop and beep						
Power requirements [2]	100 Vac ±10%, single phase, 50/60Hz; 110 to 120 Vac ±10%, single phase, 60Hz; or 200 to 230 Vac ±10%, single phase, 50/60Hz						
Power consumption	400 VA, rush current 62 A(typ.) (20 ms or less)						
Mass	175 kg	180 kg	185 kg	190 kg	195 kg	200 kg	205 kg
Environmental conditions	0 to 40°C, relative humidity 30 to 85%, non-condensing						
Protection class	A (Non-waterproof) type: IP30 compliance / AW (Waterproof) type: IP66 compliance						
Exterior	A (Non-waterproof) type: painted (Indicator and detector head: stainless steel (SUS304))						
	AW (Waterproof) type: stainless steel (SUS304)						

1: Sum total of product weight on the conveyor.
2: Choose one of the three power requirements.
Note: The shape and size (length, width and height) of products to can be inspected depend on the rejector type.
Note: The noise level of the metal detectors does not exceed 70 dB (A).

For Aluminum Packaged Products

Maximum pass width: 230 mm (KD8200AW), 400 mm (KD8220AW)

KD8200AW

Pass height: 30 mm, 40 mm, 50 mm, 60 mm
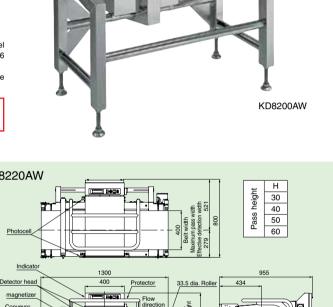
KD8220AW

Pass height: 30 mm, 40 mm, 50 mm, 60 mm

Note: Metals that exhibit magnetic properties such as iron and SUS430 and stainless steel processed by cutting and bending (placed under stress) such as SUS304 and SUS316 can be detected.
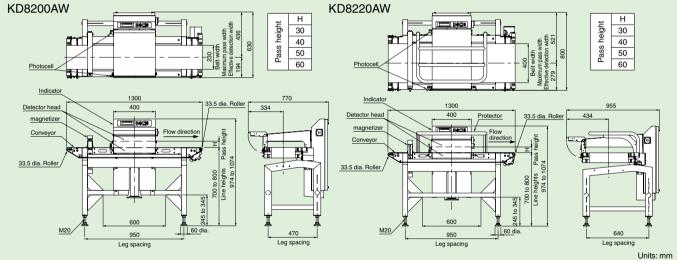Aluminum, brass, copper, silver, gold, lead, titanium, etc. cannot be detected because they cannot be magnetized.

⚠ This metal detector (MD) uses strong magnets so people with pacemakers, etc.,(life-support devices) must not come near it, otherwise there is a risk of pacemaker malfunction.

KD8200AW

■ External Dimensions

KD8200AW

Pass height	H
	30
	40
	50
	60

KD8220AW

Pass height	H
	30
	40
	50
	60

Units: mm

■ Specifications

Model	KD8200AW	KD8220AW
Pass height [1]	30 mm, 40 mm, 50 mm, 60 mm	
Maximum pass width	230 mm	400 mm
Belt width	230 mm	400 mm
Display	STN LCD	
Operation method	Flat panel key	
Preset memory	Maximum 100	
Product packaging	General, aluminum-metallized-packaging and aluminum-foil-packaging products	
Belt speed [2]	10 to 90 m/min (variable speed depending on Product No.)	10 to 40 m/min (variable speed depending on Product No.)
Maximum product weight [2, 3]	70 m/min or less : 4 kg, 71 m/min or more : 3 kg	5 kg
Metal detection	Rejection signal output and beep, or belt stop and beep	
Power requirements	100 to 120 Vac +10% −15% or 200 to 240 Vac +10% −15%, single phase, 50/60 Hz, 200 VA, rush current 70 A (typ.) (20 ms or less)	
Mass	130 kg	160 kg
Environmental conditions	0 to 40°C, relative humidity 30 to 85%, non-condensing	
Protection class	IP66 compliance	
Exterior	Stainless steel (SUS304)	

1: Any one of pass heights can be selected. Contact our sales representatives for change.
2: KD8200AW can support up to 8 kg as an option. However, the belt speed is 5 to 43 m/min.
 KD8220AW can support up to 10 kg as an option. However, the belt speed is 5 to 20 m/min.
3: Sum total of product weight on the conveyor.
Note: The shape and size (length, width and height) of products to can be inspected depend on the rejector type.
Note: The noise level of the metal detectors does not exceed 70 dB (A).

For Aluminum Packaged Products
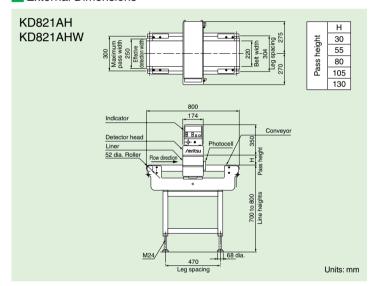
Maximum pass width: 300 mm

KD821AH / AHW

Pass height: 30 mm, 55 mm, 80 mm, 105 mm
130 mm

KD821AH

■ External Dimensions

KD821AH
KD821AHW

Pass height	H
	30
	55
	80
	105
	130

Indicator
Detector head
Liner
52 dia. Roller
Flow direction
Photocell
Conveyor
800
174
350
H Pass height
700 to 800 Line heights
M24
470 Leg spacing
68 dia.

Units: mm

■ Specifications

Model	KD821AH	KD821AHW
Pass height [1]	30 mm, 55 mm, 80 mm, 105 mm, 130 mm	
Maximum pass width	300 mm	
Belt width	220 mm	
Display	LED	
Operation method	Flat panel key	
Preset memory	Maximum 50	
Product packaging	Aluminum foil packaged products	
Belt speed	39 m/min	
Maximum product weight [2]	5 kg	
Metal detection	Rejection signal output and beep, or belt stop and beep	
Power requirements	100 Vac ±10%, single phase, 50/60 Hz, 200 VA	
Mass	75 kg	
Environmental conditions	0 to 40°C, relative humidity 30 to 85%, non-condensing	
Protection class	IP30 compliance	IP65 compliance
Exterior	Painted	Conveyor leg: stainless steel (SUS304)

1: Any one of pass heights can be selected. Contact our sales representatives for change.
2: Sum total of product weight on the conveyor.
Note: The shape and size (length, width and height) of products to can be inspected depend on the rejector type.

duw-h series

For Large Products

For Aluminum Packaged Products

Test Pieces

For KDS & KD813☐ models

Fe sphere

Size (Dia.mm)	0.5	0.6	0.7	0.8	1.0	1.2	1.5	2.0	2.5	2.8
	3.0	4.0	4.8	5.6	6.0	6.4	7.2	8.0	8.8	9.6

SUS sphere

Size (Dia.mm)	0.8	1.0	1.2	1.5	2.0	2.4	2.5	2.8	3.0	3.5
	4.0	4.8	6.0	7.2	8.0	9.6				

For KD8200 & KD8220 models

Fe sphere

Size (Dia.mm)	0.5 to 9.6

Sizes are the same with the test pieces for other models.

SUS wire

Dia. × long (mm)	0.28 × 2
	0.55 × 2
	0.9 × 2
	1.2 × 2
	1.6 × 2
	2.0 × 2
	2.5 × 3
	3.0 × 3

Note: The magnetic properties of each individual SUS wire may vary depending on operating conditions.

Note: Non-ferrous test pieces are also available. Contact our sales representatives for details.

Note

Note

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・Some products shown in this catalog may not be available in your country or region.
  Contact our sales representatives for details.
・To ensure proper operation, read the Operation Manual before using the machine.
・In addition to daily inspection, a full maintenance inspection should be completed annually.

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