

# Digital Sensor Product Guide

# DSE-45 Digital Wideband Sensor

Web widths change  
Your sensor shouldn't have to



DSE-45



DSE-11



DSE-22



DSE-31

# Digital Edge Sensors

Our New Line of Digital Sensors Helps You Choose the Perfect Fit for Your Application

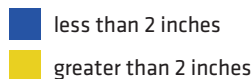
## Infrared Sensors vs Ultrasonic Sensors

- **Ultrasonic** and **infrared** technology can be used for standard, opaque webs
- **Ultrasonic** sensors are best for transparent films because these webs are invisible to infrared light
- **Infrared** sensors are best for porous materials, as they cannot be detected with ultrasonic sound

See page 7 for more detailed specifications, or contact your sales representative today.

N = Narrow Web  
W = Wide Web  
V = Variable

Web edge may vary by



	Opaque					Transparent		Woven			Nonwoven		Specialty		
	Paper	Colored Film	Foil	Felt	Opaque & Trans	Film	Irregular Edge	Cloth	Mesh	Gauze	Spunbond	Roofing	Carpet Tuft	Battery	Tire Cord
<b>Infrared Sensors</b>															
DSE-11 (N)	Blue	Blue	Blue	Blue	Blue	White	Gray	Blue	Blue	Blue	Blue	White	Gray	Blue	Gray
DSE-22 (N, W)	Blue	Blue	Blue	Blue	Blue	White	Gray	Blue	Blue	Blue	Blue	White	Gray	Blue	Gray
DSE-23 (N, W, V)	Blue	Blue	Blue	Blue	Blue	White	Gray	Blue	Blue	Blue	Blue	White	Gray	Blue	Gray
DSE-17 (N, W, V)	Yellow	Yellow	Yellow	Yellow	Yellow	White	Yellow	Yellow	Yellow	Yellow	Yellow	White	Yellow	Yellow	Yellow
SE-38 (N, W)	Blue	Blue	Blue	Blue	Blue	White	Blue	Blue	Blue	Blue	Blue	White	Gray	Blue	Gray
<b>Ultrasonic Sensors</b>															
DSE-31 (N)	Blue	Blue	Blue	Blue	Blue	Blue	Gray	White	Gray	White	Gray	White	Gray	Blue	Gray
DSE-41 (N)	Blue	Blue	Blue	Blue	Blue	Blue	Gray	White	Gray	White	Gray	White	Gray	Blue	Gray
DSE-45 (N, W, V)	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	White	Gray	White	Gray	Yellow	Gray	Yellow	Gray



Our Experts Solve Your  
Converting Challenges  
*Faster!*

# Featured Specialty or Line Guide Sensors



## DAC-005 Camera Sensor

- Ideal solution for a wide range of difficult to sense materials, from nonwovens to steel
- The small housing, internal light source and different C-mount lenses allow for installation under tight field conditions
- High resistance to contamination from dust particles, oil, vapors, and water



## DST-1 Object Recognition Sensor

- Revolutionary breakthrough in sensor technology that utilizes object recognition to guide the most challenging materials other sensors simply can't
- Easy touchscreen setup
- Easy to change materials



## SE-46C Digital Line Guide Sensor

- Capable of detecting line, line edge, and patterns (i.e. barcodes)
- Easy reference selection through color touch screen
- Can also be used in low contrast conditions or with different patterns located close to each other, where traditional line sensors do not work



## DSE-15 Reflected Light Sensor

- Ideal for most applications with opaque, transparent, or reflective materials
- Compact dimensions can fit limited web spaces
- Usable for most unwind or rewind applications due to low sensitivity to plane change

In addition to digital sensors, Fife has a wide range of analog and pneumatic sensors. Contact your local sales representative or visit [maxcessintl.com](http://maxcessintl.com).



## Infrared Sensors



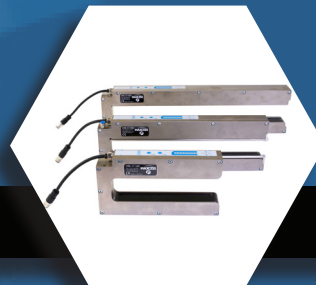
DSE-11



DSE-22



DSE-23



DSE-17



SE-38

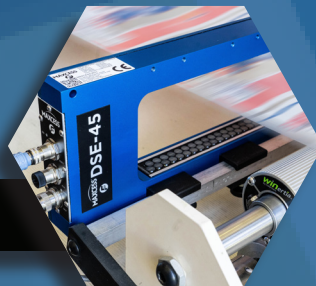
## Ultrasonic Sensors



DSE-31



DSE-41



DSE-45

# Digital Edge Sensor Specifications



	Shape	Gap (mm)	Proportional Band (mm)	Resolution (mm)	Digital Output	Edges	Protection Class
<b>Infrared Sensors</b>							
<b>DSE-11 (N)</b>	C	25	10	0.00015	0 - 10 mA (4 - 20 mA optional digital data exchange RS-485)	1	IP54
<b>DSE-22 (N, W)</b>	C	50 standard, up to 100	20	0.00031	0 - 10 mA (4 - 20 mA optional digital data exchange RS-485)	1	IP54 optional IP65
<b>DSE-23 (N, W, V)</b>	C	50	63.5	0.00097	0 - 10mA (4 - 20 mA optional digital data exchange RS-485)	1	IP54
<b>DSE-17 (N, W, V)</b>	C	50	160, 300, 420	0.00244, 0.00488, 0.00641	0 - 10 mA (4 - 20 mA optional)	4	IP65
<b>SE-38 (N, W)</b>	C	50	50.8	0.063	0 - 10 mA	1	IP50
<b>Ultrasonic Sensors</b>							
<b>DSE-31 (N, W)</b>	C	25	7.6	0.00012	0 - 10 mA (4 - 20 mA optional digital data exchange RS-485)	1	IP54
<b>DSE-41 (N, W)</b>	C	50	7.6	0.00012	0 - 10 mA (4 - 20 mA optional digital data exchange RS-485)	1	IP54
<b>DSE-45 (N, W, V)</b>	C	100	66, 107, 178, 311, 515	0.00101, 0.00163, 0.00272, 0.00475, 0.00786	MaxNet over Ethernet, RS-485	16	IP65

Learn more about  
Maxcess **End-to-End** Web Handling Solutions at

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