



855R Industrial Round Beacons



expanding **human possibility**[®]



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855R Industrial Round Beacons

The 855R is a new family of industrial LED beacons in 110 mm diameter designed to enhance visual and audible indication on applications where the use of a beacon is preferred over another signaling solution. The new 855R beacons help to reduce installation time and maintenance costs.



Modular construction

- Two LED beacon module styles high or compact lens
- All electronics are included with the lens
- Available in 24V DC and 120V or 240V AC
- Offered as separate components or pre-assembled beacons



Higher Performance

- Multi-function LED beacon modules with up to 15 different operating modes in the same unit
- The 855R multi-function is available in high or standard brightness versions
- Multi-color LED modules capable of displaying up to 7 different colors available in both lens styles



Audible option to complement visual indication

- Audible mounting base with 32 tones selectable via DIP switch in device
- Up to 3 stages (circuits) that can be controlled via external wiring
- Compatible with all LED beacon modules (high or compact)

The 855R provides more functionality with less SKU's !



855R Beacon Line- Main Components

1. Beacon Modules



Standard brightness
steady or multi-function



High brightness
multi-function



High lens
multi-color
(fresnel lens)



Compact multi-color
(opaque lens)



Compact multi-function
(opaque lens)

2. Bases



Surface mount
low profile base



Surface mount 1/2 in.
NPT or 25 mm tube
base



Audible base

3. Brackets



Plastic bracket for
low profile base



Metal bracket for
surface mount bases



Metal bracket for
audible base



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Modular construction that simplifies part numbers to stock or replace

- The key parts for a complete beacon are:
 - LED beacon module
 - Defined by voltage and color
 - High or compact lens
 - Mounting base
 - Four options to choose
 - Surface low profile
 - Surface mount / ½ in. NPT conduit
 - Surface mount / 25 mm tube mount
 - Audible
 - Vertical mounting brackets if required
 - Metal or plastic (design base)



855R Configuration Examples



Factory configured versions*



Ordered as separate components

*Factory configured versions include steady, multi-function and multi-color beacons



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Product Overview



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High brightness LED beacon module

- Available as multi-function LED beacon module
 - Up to 15 operating modes can be selected in the device
 - Include steady, flashing, strobe and rotating functionality
- Electronics and lens in the same unit
- Available in six color lenses:
 - Green, amber, red, blue, clear and yellow
- Available in 24V DC, 120V AC or 240V AC
- UL Type 4/4X/13, IP66/67



Beacon LED module



Complete beacon with
surface mount / 1/2 in.
NPT base



Complete beacon with
low-profile base



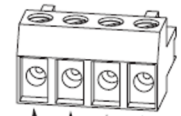
855R Industrial Round Beacon

High brightness LED beacon module-operating modes

- Light patterns include:
 - Steady 100%, 50% and 25% brightness levels
 - Flashing: 2Hz or 4Hz
 - Strobe: 1, 2 or 6 strikes
 - Rotating: 90 or 180 rpm
 - Pulse signal 1.725 or 3.75 sec
- Operating modes grouped in 4 tables
 - Selectable via DIP switch
 - Seven operation modes per setting
 - Controlled by external wiring
 - Three circuit device




DIP switch settings

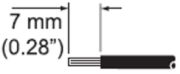


N 1 2 3

0.56 Nm
UL: (5 lb-in)







7 mm
(0.28")



Max. 2.5 mm²
(Max. #14 AWG)

855R-*HMF*

N	1	2	3				
N	L			Steady 100%	Rotating (1) 180rpm	Strobe (1) 1.4Hz	Steady 100%
N		L		Flashing 2Hz	Rotating (2) 180rpm	Flashing 2Hz	Steady Dim 50%
N			L	Strobe (6) 1 Hz	Rotating (2) 90rpm	Flashing 4Hz	Steady Dim 25%
N	L	L		Strobe (2) 1 Hz	Rotating (1) 90rpm	Steady 100%	Pulse 1.725s
N	L		L	Flashing 4Hz	Steady 100%	Strobe (2) 1Hz	Strobe (6) 1Hz
N		L	L	Rotating (1) 180rpm	Strobe (1) 1Hz	Rotating (1) 180rpm	Strobe (2) 1Hz
N	L	L	L	Pulse 1.725s	Pulse 3.75s	Pulse 3.75s	Pulse 3.75s



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Standard brightness LED beacon module

- Available as steady or multi-function LED beacon
- Multi-function LED beacon module
 - Same functionality than high brightness LED beacon module with 15 operating modes to select in the unit
 - Include steady, flashing, strobe and rotating functionality
- Six color lenses to choose:
 - Green, amber, red, blue, clear and yellow
- Available in 24V DC, 120V AC or 240V AC
 - Extended range for steady (120/240V AC)
- UL Type 4/4X/13, IP66/67



Beacon LED module



Complete beacon with low-profile base



Complete beacon with surface mount / 1/2 in. NPT base



855R Industrial Round Beacon

Standard brightness LED beacon- operating modes

- Light patterns include:
 - Steady 100%, 50% and 25% brightness levels
 - Flashing: 2Hz or 4Hz
 - Strobe: 1, 2 or 6 strikes
 - Rotating: 90 or 180 rpm
 - Pulse signal 1.725 or 3.75 sec
- Operating modes grouped in 4 tables
 - Selectable via DIP switch
 - Seven operation modes per setting
 - Controlled by external wiring
 - Three circuit device



DIP switch settings

855R-*MF*

Max. 2.5 mm² (Max. #14 AWG)

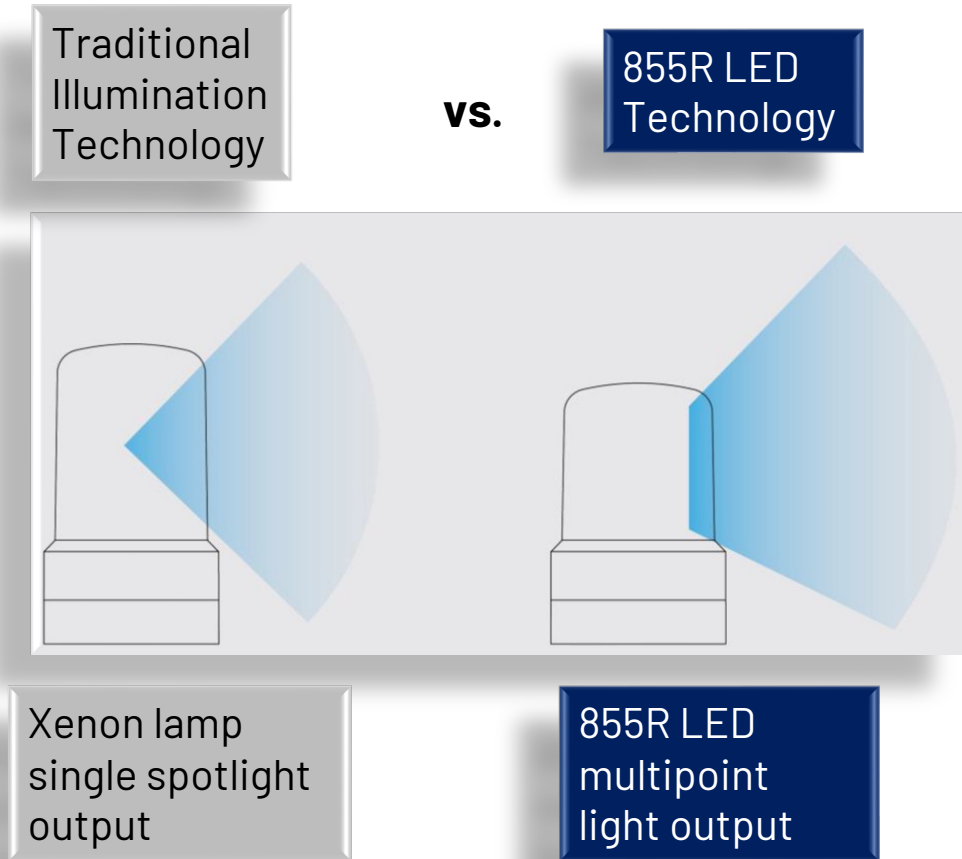
N	1	2	3				
N	L			Steady 100%	Rotating (1) 180rpm	Strobe (1) 1.4Hz	Steady 100%
N		L		Flashing 2Hz	Rotating (2) 180rpm	Flashing 2Hz	Steady Dim 50%
N			L	Strobe (6) 1 Hz	Rotating (2) 90rpm	Flashing 4Hz	Steady Dim 25%
N	L	L		Strobe (2) 1 Hz	Rotating (1) 90rpm	Steady 100%	Pulse 1.725s
N	L		L	Flashing 4Hz	Steady 100%	Strobe (2) 1Hz	Strobe (6) 1Hz
N		L	L	Rotating (1) 180rpm	Strobe (1) 1Hz	Rotating (1) 180rpm	Strobe (2) 1Hz
N	L	L	L	Pulse 1.725s	Pulse 3.75s	Pulse 3.75s	Pulse 3.75s



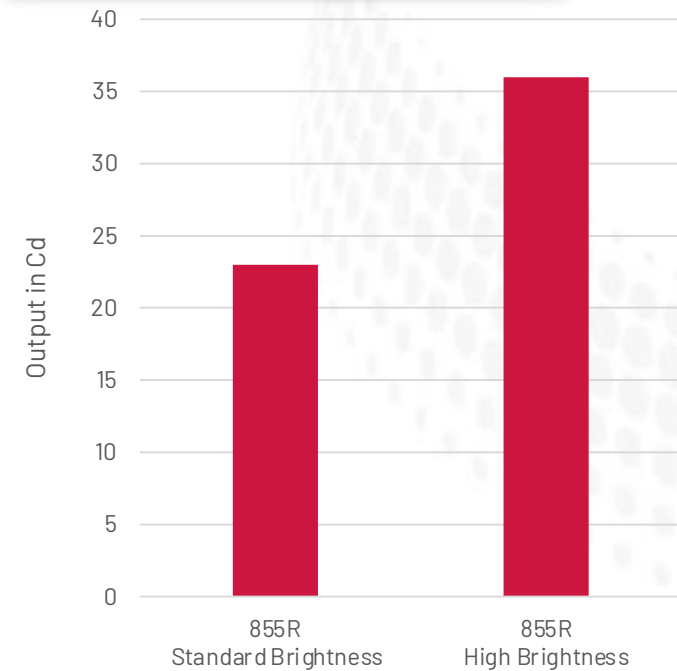
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One size, two brightness levels

Light output comparison



855R High brightness output is 50% higher than 855R standard brightness!



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High lens multi-color LED beacon module

- Uses RGB technology
- Up to seven colors can be produced in one unit
 - Red, green, yellow, blue, turquoise, magenta, white
 - Controlled via external wiring (3 circuits)
 - Steady functionality (no DIP switches)
- Available with clear lens only
- Available in 24V DC, 120V AC or 240V AC
- UL Type 4/4X/13, IP66/67



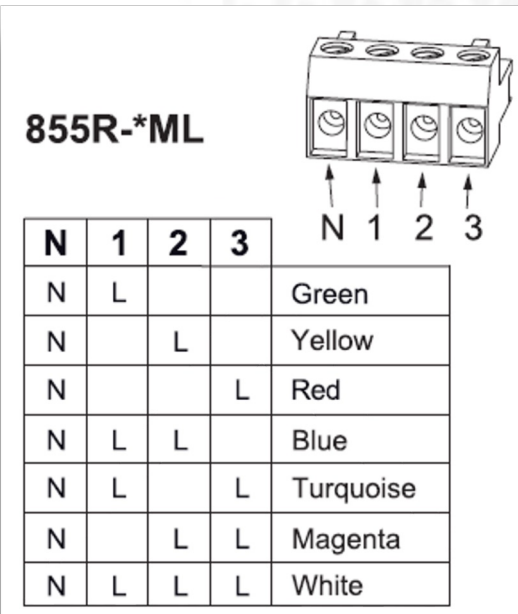
Beacon LED module



Complete beacon with low-profile base



Complete beacon with surface mount / 1/2 in. NPT base



855R Industrial Round Beacon

Compact lens multi-color LED beacon module

- Uses RGB technology
- Up to seven colors can be produced in one unit
 - Red, green, yellow, blue, turquoise, magenta, white
 - Controlled via external wiring (3 circuits)
 - Steady functionality (no DIP switches)
- Utilizes opaque “milky” lens for homogeneous light dispersion
- Available in 24V DC, 120V AC or 240V AC
- UL Type 4/4X/13, IP66/67



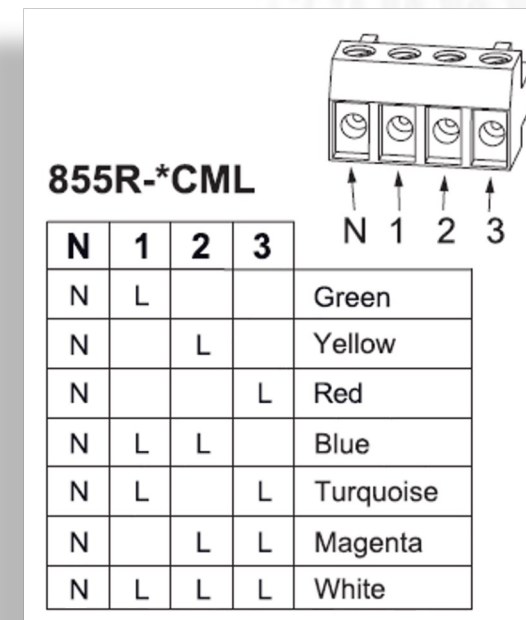
Compact LED beacon module



Compact beacon with low profile base



Compact beacon with surface mount / 1/2 in. NPT base



855R Industrial Round Beacon

Compact lens multi-function LED beacon module

- Up to six different light patterns in the same unit
 - Steady
 - Flashing 2 Hz
 - Strobe six (1 Hz) or two strikes (1.4 Hz)
 - Multi burst (7.5 Hz)
 - Double pulse fading (1Hz)
- Operating mode selected via DIP switch on beacon module
- Uses colored LED to produce visual output
 - Green, red, amber, blue, white and yellow
 - All colors use opaque "milky" lens for homogeneous light output
- Available in 24V DC, 120V AC or 240V AC
- UL Type 4/4X/13, IP66/67



Compact LED beacon module




Compact beacon with low profile base



Compact beacon with surface mount / 1/2 in. NPT base

855R-*CMF*



La	N	Lb	Switch	Light Pattern	Frequency
L	N			-----	flashing 2.0 Hz
	N	L			6-times 1.0 Hz
L	N	L		—————	steady
L	N				2-times 1.4 Hz
	N	L			7.5 Hz
L	N	L			2-times 1.0 Hz



855R Industrial Round beacon

Mounting Bases

- Surface mounting bases:
 - Low profile
 - ½ in. NPT conduit mount
 - 25 mm tube mount
- Audible mounting base
 - Compatible with all LED beacon modules
 - Multi tone - multi circuit device
 - Catalog numbers selected based on operating voltage
- UL Type 4/4X/13, IP66/67 for all bases except tube mount base
 - Tube mount base is rated IP54 UL type 12 when mounted upright
- All bases are equipped with a terminal block holder
 - Allows the use of both hands to wire the beacon terminal block
- All bases have a screw that can be used as help to avoid unwanted removal of the beacon module



Low-profile
surface mount base



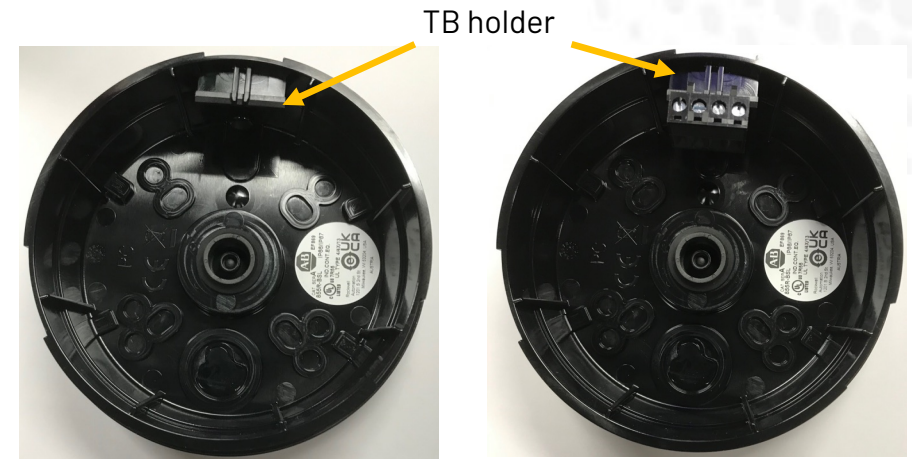
Audible base



Surface mount
base / ½ in. NPT



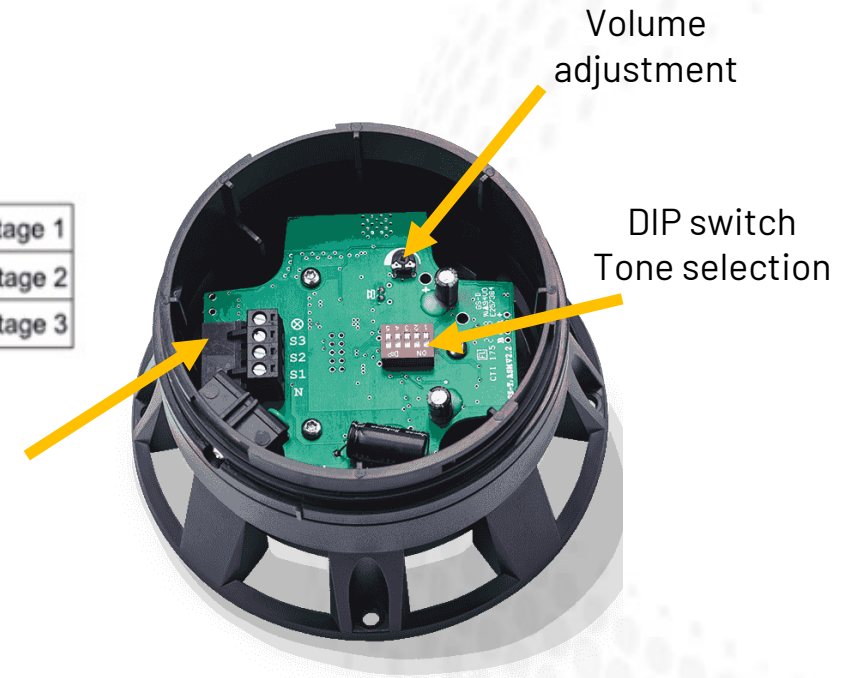
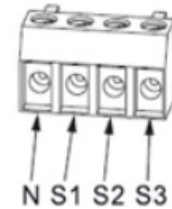
Surface mount
base / 25 mm tube



855R Audible Base

- Available for 24VDC, 120V AC or 240V AC
- Base has a 32-tone table
 - Continuous, intermittent, alternating, sweeping, 3-tone gong, bell and slow rise tone types
- Three stages (circuits) device
 - Stage 1, 2 and 3 are selected via the DIP switch inside the unit
- Sound output: 95dB @ 1 m
- Volume adjustable (-15dB) via potentiometer
- Can be synchronized with beacon light pattern via wiring

N	S1	S2	S3	
N	L			Stage 1
N	x	L		Stage 2
N	x	x	L	Stage 3



Tone table

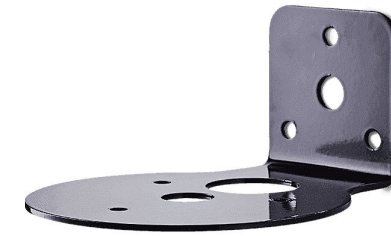
Dip switch	Stage 1	Tone type	Frequency	Pictogram	Repeat rate	Typical application	Stage 2	Stage 3
	Tone 01	continuous	660 Hz	=====		Swedish alarm	Tone 16	Tone 12
	Tone 02	continuous	1000 Hz	=====		PFEER toxic gas	Tone 16	Tone 25
	Tone 03	continuous	2400 Hz	=====			Tone 21	Tone 17
	Tone 04	intermittent	420 Hz	-----	0.625 s on / 0.625 s off	Australian alert AS1670	Tone 21	Tone 01
	Tone 05	intermittent	660 Hz	-----	1.8 s on / 1.8 s off	Swedish alarm	Tone 21	Tone 01
	Tone 06	intermittent	660 Hz	-----	0.15 s on / 0.15 s off	Swedish alarm	Tone 16	Tone 01
	Tone 07	intermittent	970 Hz	-----	1 s on, 1 sec off	PFEER Alarm, BS5839-1:2002	Tone 18	Tone 01
	Tone 08	intermittent	970 Hz (950)	-----	0.5 s on/0.5 s off x 3 then 1 s off	ISO 8201 low tone, US Temporal	Tone 16	Tone 03



855R Industrial Round Beacon

Accessories

- Vertical Mounting Brackets:
 - Metal for surface mount bases (855R-ABVM)
 - Metal for audible base (855R-ABVA)
 - Plastic (855R-ABVP) - mounts on low profile surface mount base
- Cable glands
 - M20
 - M16
- Gaskets as replacement parts
 - For surface mount bases
 - For vertical mount brackets



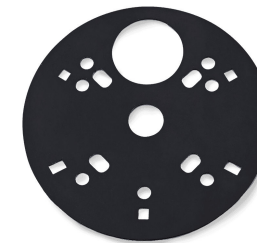
Vertical metal bracket for bases



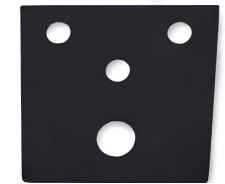
Vertical metal bracket for audible base



Vertical plastic bracket (855R-ABVP)



Surface mount gasket



Vertical mount gasket



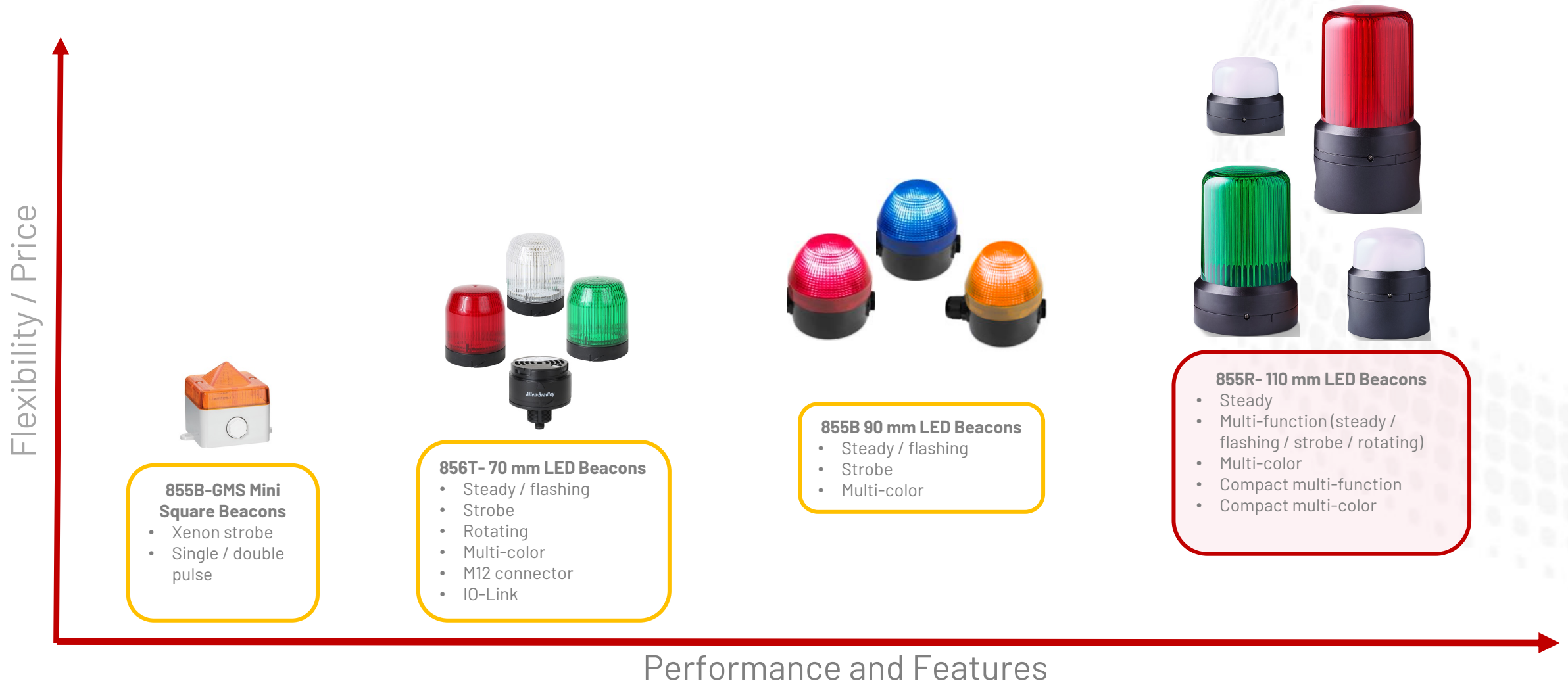


Product Family Positioning



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855R Industrial Round Beacons- Product Positioning



Broad range of functionality and form factors to address most industry beacon applications!



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**Rockwell
Automation**

Target Industries & Applications



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855R Industrial Round Beacon- Target Industries

The following are examples of Industries that require to broadcast alarms or alerts to several people simultaneously

- Household and Personal Care
- Mining and Metals
- Food and Beverage
- Automotive
- Packaging and Material Handling
- Wholesales-Ecomm and Logistics
- Airports
- Fibers and Textiles



855R Industrial Round Beacon- Applications

Industrial conveyors



General signaling



Packaging machines



Outdoor conveyors



Power generation control panels



X-ray inspection machines



855R Industrial Round Beacons

The new 855R beacon family helps customers to...

- **Identify more critical conditions** on the machine or equipment that can adversely impact productivity
 - Expanded functionality on each device
 - Multi-color to indicate up to seven different conditions/alarms
- **Increase the awareness level** in the plant floor by complementing the visual indication with audible alarm
 - Multi tone/multi circuit sounder that enables customer's selected tones to be used to alarm different conditions in the same beacon arrangement
- **Reduce inventory costs**
 - Multi-function and multi-color devices allow the same catalog number to be used in different applications
- **Reduce Maintenance costs**
 - All 855R beacons are virtually maintenance-free thanks to the use of LED technology



THANK YOU



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