Position Marker
i-MARK 2, i-MARK 3

IDENTEC
SOLUTIONS

The purpose of the Position Marker is to determine exact locations of specially-equipped ILR® tags from IDENTEC SOLUTIONS' i-Q and i-B series. As the tag passes the induction loop connected to the Position Marker, it is "woken up" and identification data from the Position Marker is downloaded onto the tag. Depending on the type of tag, current as well as previous IDs and the relative time of passage over the loop are either repeatedly broadcast or they can be read from the tag by an ILR® reader at a later time and place. Because of the excellent ability to control the inductive field limits, both lane discrimination and direction recognition are possible. The Position Marker is typically mounted near the induction loop and remains maintenance-free after setting the original parameters. There are two versions available: i-MARK 2 with integrated inductive antenna (loop) and i-MARK 3 for external loops.

Characteristics	i-MARK 2	i-MARK 3
Compatibility	ILR® i-Q and i-B tags with Marker Feature	
Frequency	125 KHz	
Modulation	100% AM	
Range (adjustable)	up to 3.5 m	up to 5 m (depending on loop)
Position data	16 bit (programmable)	
Loop current	max. 6 A_{pp}	
Loop area	integrated	max. 100 m^2
Loop width	-	min. 1m
Pass-over velocity	max. 100 km/h	max. 100 km/h (@ 1 m loop width)
Number of loops	1 (internal)	1 (external)
User Interface		
Bus	i-BUS (RS422)	
Manual	BlueTooth, Class 2, SPP Profile	
Indicators	4 LEDs, bicolour (Run, Loop, Bus, Error)	
Features	Programming of Loop ID	
	Setting of loop current (range)	
	Loop diagnosis	
Electrical		
Supply voltage	10 – 30 V DC / 85 – 265 V AC	10 – 30 V DC
Power consumption	max. 20 W	
Environmental		
Operating temperature	−30°C to +60°C	
Storage temperature	−40°C to +80°C	
Physical		
Dimensions	285 x 202 x 60 mm	94 x 170 x 86 mm
Enclosure	Plastic / Aluminium	
Weight	800 g	650 g
Enclosure rating	IP 54	IP 66
Cable feed	1 x M16 feed through, 2 x cable spouts (i-BUS, opt.)	2 x M16 feed through