

## Axle speed sensor

### Type IRC

illustrative picture

Axle speed sensor MIREL IRC ensures transfer of mechanical rotation of the axle of a locomotive to the consecutiveness of electric impulses, from which are defined, by further processing, speed and acceleration of a locomotive, moving direction of a locomotive and passed track. According configuration of the sensor, one or two speed canals create output from the sensor, whereby each canal consist of two electrical, out of phase signals. Power supply for IRC sensor is ensured by a device, to which is the sensor mounted. Speed sensor is places on a locomotive on the covering of enclosure of axle bearing.



Supply voltage: 24 VDC

Covering: IP65

#### Modifications:

Description	Number of canals	Pulse quantity for one turn	Coupling fork	Coupling	Pin	Length of incoming cable [m]	Connector	Weight [kg]
IRC.0.1	1	100	318M	no	no	0,9	no	2,610
IRC.0.16	1	100	1118M	IRCS.1.1	2x IRCU.1.1	0,9	no	2,690
IRC.0.16K	1	100	1118M	IRCS.1.1	2x IRCU.1.1	0,9	HAN10	2,850
IRC.0.2	2	100	318M	no	no	0,9	no	2,620
IRC.0.2K	2	100	318M	no	no	0,9	HAN10	2,780
IRC.0.21	2	100	453M	no	no	0,9	no	2,620
IRC.0.22	2	100	318M	no	no	1,5	no	2,720
IRC.0.22K	2	100	318M	no	no	1,5	HAN10	2,880
IRC.0.23	2	100	641M	no	no	1,1	HAN6	2,650
IRC.0.24	2	100	717M	no	no	2	HAN6	3,250
IRC.0.25	2	100	318M	no	no	3,35	no	3,200
IRC.0.26	2	100	1118M	IRCS.1.1	2x IRCU.1.1	0,9	no	2,700
IRC.0.27	2	100	641M	no	no	1,5	no	2,730
IRC.0.28	2	100	717M	no	no	2,2	no	3,050
IRC.0.29	2	100	453M	no	no	1,7	no	2,790

#### Specifications:

Number	Version	Title
257VZ1	070525	Technical conditions for train protection MIREL VZ1- serial usage
375M	000000	Speed sensor MIREL IRC Technical conditions
319M	000000	MIREL IRC – compositional drawing
318M	000000	MIREL IRC – coupling fork 318M
453M	000000	MIREL IRC – coupling fork 453M
641M	000000	MIREL IRC – coupling fork 641M
717M	000000	MIREL IRC – coupling fork 717M
1118M	081114	MIREL IRC – coupling fork 1118M
1091M	080923	IRCU – Pin
1119M	081114	IRCS – Coupling

#### Usage:

MIREL VZ1 – Train protection  
MIREL RM1 – Registration speed meter  
MIREL RS350 – Control system

MIREL RS812 – Control system  
MIREL RS813 – Control system  
MIREL RS362 – Control system