Badge Reader
SBR

SBR is a radio frequency proximity badge reader (contactless), ATEX and IECEx certified, used for driver identification in loading bays of oil storage tank terminals.

Contactless badge reading, high degree of mechanical protection (IP66) and ATEX and IECEx certification guarantee:

- no wearing and consequent long operating life
- safe use in hazardous area

SBR reads badges at 125 kHz with a ISO 7816 size standard (like credit cards).

Badge reading is performed by inserting the card into the front pocket.

Badge code is transmitted via serial communication line:

- to a TAS (Terminal Automation System) with SBR/A slave version (transmission upon request)
- to an electronic counter VEGAII / VEGAT or VEGA 3 with SBR/B master version (spontaneous transmission).

SBR is also equipped with three leds indicating:

- red: power ON
- green: correct reading of the badge
- yellow: output relay status

SBR/A SLAVE version
(transmission upon request)

In this case the TAS constantly asks the badge reader to check:
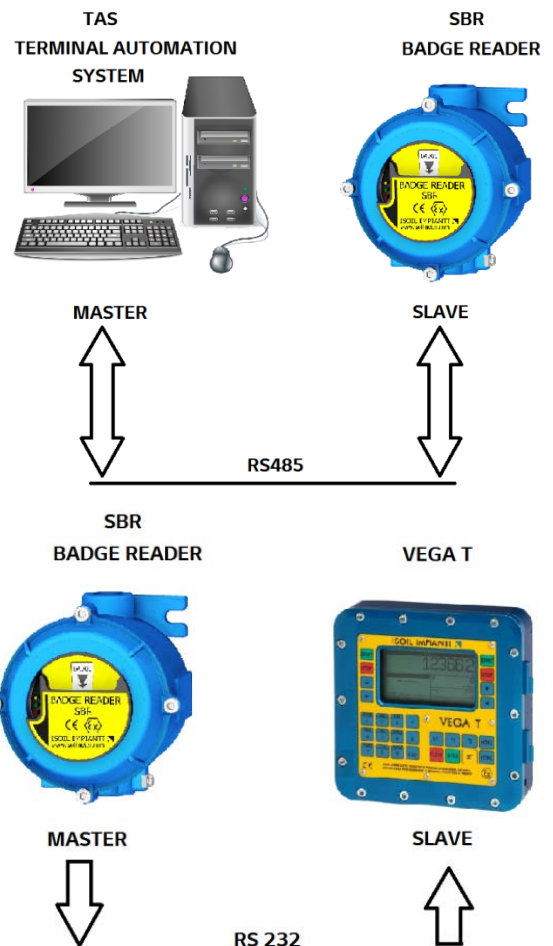
- if the badge is in the pocket
- badge code

The TAS can also drive one relay, placed in the badge reader, to control an external device such as a bar or a traffic light.

SBR/B MASTER version
(spontaneous transmission)

In this case the badge reader spontaneously and continuously transmits the code of the badge in the pocket.
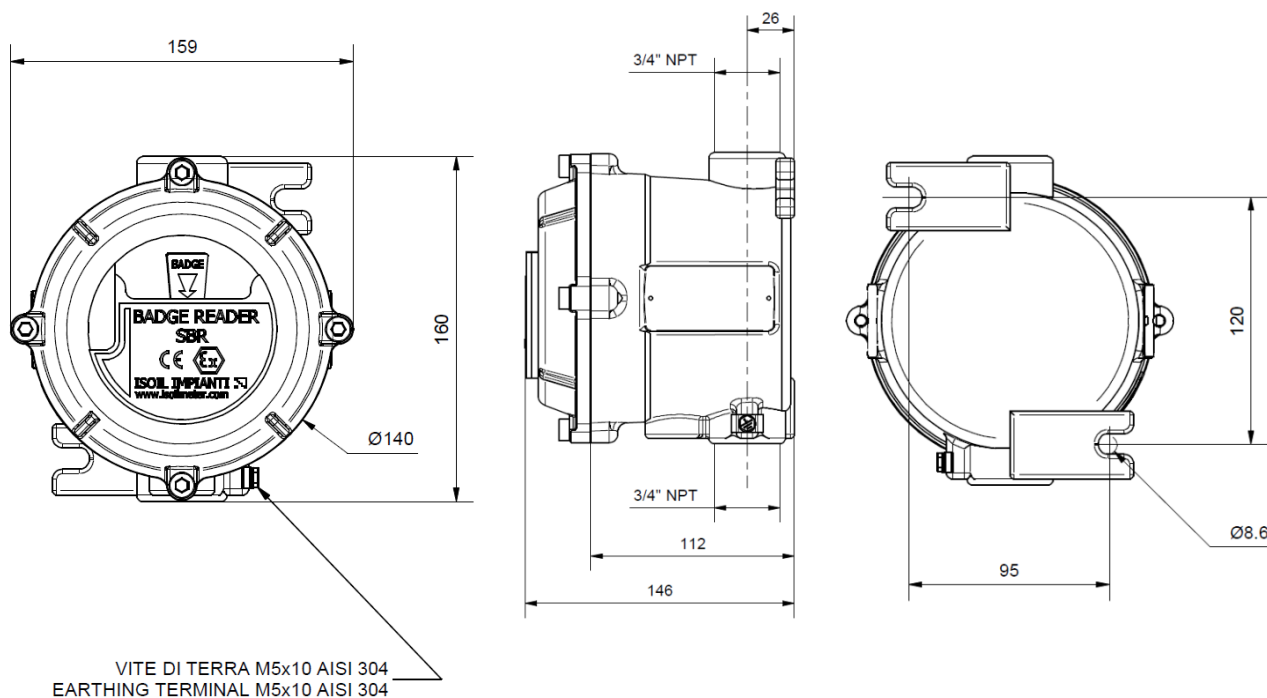
This version can also be used when there is no TAS and the use of the loading bay must be limited to operators provided with a badge enabled by a specific procedure on VEGAII / VEGAT or VEGA 3.

TAS
TERMINAL AUTOMATION SYSTEM — MASTER

SBR
BADGE READER — SLAVE

RS485

SBR
BADGE READER — MASTER

VEGA T — SLAVE

RS 232

www.isoilmeter.com

Dimensions

Dimensions in mm.

VITE DI TERRA M5x10 AISI 304
EARTHING TERMINAL M5x10 AISI 304

Technical Characteristics

Power supply voltage:	115/230 Vac 50÷60 Hz
Power consumption:	11 W max
Operating temperature:	-40 ÷ +60°C
Umidity:	0÷98% without condensation
Mechanical protection:	IP66
Ex protection:	II 2 G Ex d IIC T6 Gb (gas)
	II 2 D Ex tb IIIC T85°C Db IP66 (dust)
Custody alloy:	Fusion of alluminium
Weight:	1.6 Kg
Fixing:	Wall mounting two screws
Cable entries:	2 cable entries ¾" NPT
Serial communication line:	• RS232, 9600 bauds, 8 bit for model SBR/A • RS485, two wires, 9600 bauds, 8 bit for model SBR/B
Mechanical relay output:	1 free contact NO (Normally Open), NC (Normally Closed), C (Common) • Voltage max 260 Vac / 220 Vdc • Corrent max 5 A
Badge:	• Frequency 125 kHz (Supported Tag: UNIQUE, Q5, T5577) • Dimension ISO/IEC 7816

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