



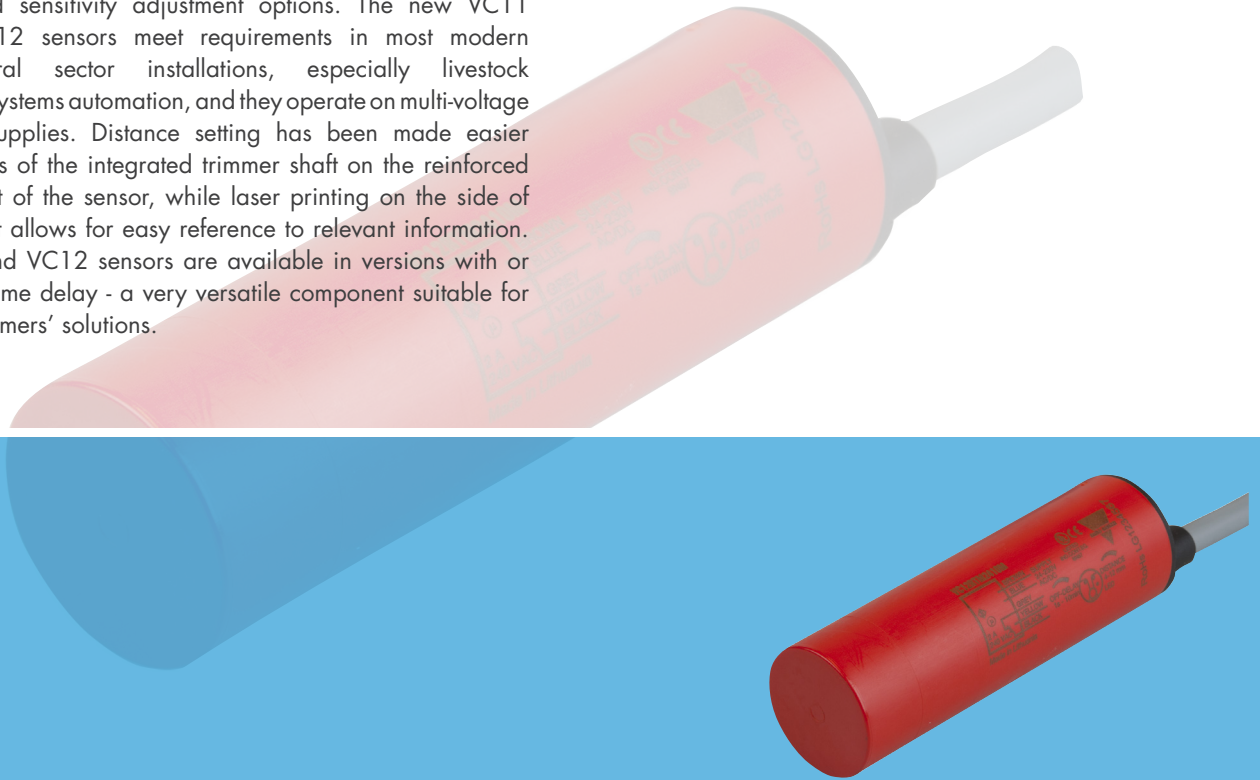
VC11/12 Series - Capacitive Sensors

Sensors

VC11/12 Series

Capacitive sensors with relay output

Based on the popular and successful VC11 and VC12 sensor series, our new generation of capacitive sensors features improved EMC performance as well as accurate time and sensitivity adjustment options. The new VC11 and VC12 sensors meet requirements in most modern agricultural sector installations, especially livestock feeding systems automation, and they operate on multi-voltage power supplies. Distance setting has been made easier by means of the integrated trimmer shaft on the reinforced back-part of the sensor, while laser printing on the side of each unit allows for easy reference to relevant information. VC11 and VC12 sensors are available in versions with or without time delay - a very versatile component suitable for our customers' solutions.



Robust sensor for the agricultural industry

Our new VC11 and VC12 sensors offer improved EMC performance and a reinforced power supply insulation.

Sensing distance

Distances from 4 to 12 mm are easily set by means of the multi-turn potentiometer.

Time delay

VC11 and VC12 are equipped with a time delay which manages delays from 1 to 600 seconds for easy and fast control of the feeding system.

Wide supply voltage range

Ready for world-wide use, VC11 and VC12 operate on 20.4 to 255 VAC/DC.

Approvals

CE (EN60947-5-2)
cULus (UL508) - M24 only



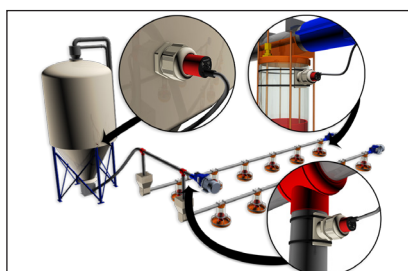
Applications

Livestock feeding systems for poultry or pigs

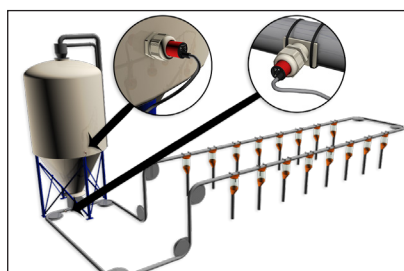
The VC11 and VC12 sensors efficiently control the fodder and seed supply. The sensors detect feed levels in the storage tank and in the feeding line, they control the start and stop of the feeding line, ensuring uniform, simultaneous and precise dosing and providing equal and comfortable access of feed for all birds or pigs.



Straight line feeding system



Circular disc chain feeding system



The VC11/12 Family

Delay on operate	ON-Delay	VC11RT92410M	VC11RT12010M	VC11RT23010M	VC11RTM2410M
	OFF-Delay	VC12RT92410M	VC12RT12010M	VC12RT23010M	VC12RTM2410M
	No-Delay	VC12RN924	VC12RN120	VC12RN230	VC12RNM24
Rated operating distance (S _n)	12 mm				
Sensitivity control	4 ... 12 mm, 15 turns potentiometer				
Hysteresis (H)	1.5 mm @ 7 mm				3 .. 20 %
Rated operational voltage (U _a)	24VAC/DC	120 VAC	230 VAC	20,4 - 255 VAC/VC	
No load supply Power	≤ 1.5 VA				≤ 2.5 VA
Rated Supply frequency	47 to 63 Hz				
Output	Relay SPDT (changeover contacts) 2A @ 249 VAC				
Output Time delay	RT versions: 1s to 10 min., 15 turn potentiometer				
Operation frequency (f)	RN versions: 1 hz				
Led indications	Red LED				
LED indications, additional function	LED flashing depend on time delay				
Degree of protection	IP67				
Ambient temperature	-20 to +70°C (-4 to +158°F)				
Storage temperature	-40 to +85°C (-40 to +185°F)				
CE marking	According to EN 60947-5-2				
Approvals	-				cULus (UL508)
Installation category	III (IEC60664/60664A; 60947-1)				
Pollution degree	3(IEC60664/60664A; 60947-1)				
Sensor protection	Reverse polarity and transients				
Vibration	10 to 150 Hz, (1.0 mm/15G; IEC 60068-2-6)				
Shock	30G /11 mS. 3 positive and 3 negative per axis (IEC 60068-2-6, IEC 60068-2-32)				
Rated insulation voltage	≥ 250 VAC (rms)				
Cable	PCV, grey, 2 m, 5 x 0.75 mm ² , Ø=7.6 mm				
Housing material, Body	PBT red				
Housing material, Backpart	-				Arnitel, Black
Housing material, Trimmer shaft	-				LCP, White
Dimensions	Ø32 x 125 mm				
Weight incl. packaging	≤ 320 g				
Accessories	Screwdriver				

OUR SALES NETWORK IN EUROPE

AUSTRIA

Carlo Gavazzi GmbH
Ketzergrasse 374,
A-1230 Wien
Tel: +43 1 888 4112
Fax: +43 1 889 10 53
office@carlogavazzi.at

FRANCE

Carlo Gavazzi Sarl
Zac de Paris Nord II, 69, rue de la Belle Etoile,
F-95956 Roissy CDG Cedex
Tel: +33 1 49 38 98 60
Fax: +33 1 48 63 27 43
french.team@carlogavazzi.fr

ITALY

Carlo Gavazzi SpA
Via Milano 13,
I-20020 Lainate
Tel: +39 02 931 761
Fax: +39 02 931 763 01
info@gavazziacbu.it

SPAIN

Carlo Gavazzi SA
Avda. Iparraguirre, 80-82,
E-48940 Leioa (Bizkaia)
Tel: +34 94 480 4037
Fax: +34 94 431 6081
gavazzi@gavazzi.es

BELGIUM

Carlo Gavazzi NV/SA
Mechelsesteenweg 311,
B-1800 Vilvoorde
Tel: +32 2 257 4120
Fax: +32 2 257 41 25
sales@carlogavazzi.be

GERMANY

Carlo Gavazzi GmbH
Pfnorstr. 10-14
D-64293 Darmstadt
Tel: +49 6151 81000
Fax: +49 6151 81 00 40
info@gavazzi.de

NETHERLANDS

Carlo Gavazzi BV
Wijkermeerweg 23,
NL-1948 NT Beverwijk
Tel: +31 251 22 9345
Fax: +31 251 22 60 55
info@carlogavazzi.nl

SWEDEN

Carlo Gavazzi AB
V:a Kyrkogatan 1,
S-652 24 Karlstad
Tel: +46 54 85 1125
Fax: +46 54 85 11 77
info@carlogavazzi.se

DENMARK

Carlo Gavazzi Handel A/S
Over Hadstenevej 40,
DK-8370 Hadsten
Tel: +45 89 60 6100
Fax: +45 86 98 15 30
handel@gavazzi.dk

GREAT BRITAIN

Carlo Gavazzi UK Ltd
4.4 Frimley Business Park,
Frimley, Camberley, Surrey GU16 7SG
Tel: +44 1 276 854 110
Fax: +44 1 276 682 140
sales@carlogavazzi.co.uk

NORWAY

Carlo Gavazzi AS
Melkeveien 13,
N-3919 Porsgrunn
Tel: +47 35 93 0800
Fax: +47 35 93 08 01
post@gavazzi.no

SWITZERLAND

Carlo Gavazzi AG
Verkauf Schweiz/Vente Suisse
Sumpfstrasse 3,
CH-6312 Steinhausen
Tel: +41 41 747 4535
Fax: +41 41 740 45 40
info@carlogavazzi.ch

FINLAND

Carlo Gavazzi OY AB
Petaksentie 2-4,
FI-00661 Helsinki
Tel: +358 9 756 2000
Fax: +358 9 756 20010
myynti@gavazzi.fi

PORTUGAL

Carlo Gavazzi Lda
Rua dos Jerónimos 38-B,
P-1400-212 Lisboa
Tel: +351 21 361 7060
Fax: +351 21 362 13 73
carlogavazzi@carlogavazzi.pt

OUR SALES NETWORK IN THE AMERICAS

USA

Carlo Gavazzi Inc.
750 Hastings Lane,
Buffalo Grove, IL 60089, USA
Tel: +1 847 465 6100
Fax: +1 847 465 7373
sales@carlogavazzi.com

CANADA

Carlo Gavazzi Inc.
2660 Meadowvale Boulevard,
Mississauga, ON L5N 6M6, Canada
Tel: +1 905 542 0979
Fax: +1 905 542 22 48
gavazzi@carlogavazzi.com

MEXICO

Carlo Gavazzi Mexico S.A. de C.V.
Calle La Montaña no. 28, Fracc. Los Pastores
Naucalpan de Juárez, EDOMEX CP 53340
Tel & Fax: +52.55.5373.7042
mexicosales@carlogavazzi.com

BRAZIL

Carlo Gavazzi Automação Ltda.Av.
Francisco Matarazzo, 1752
Conj 2108 - Barra Funda - São Paulo/SP
Tel: +55 11 3052 0832
Fax: +55 11 3057 1753
info@carlogavazzi.com.br

OUR SALES NETWORK IN ASIA AND PACIFIC

SINGAPORE

Carlo Gavazzi Automation Singapore Pte. Ltd.
61 Tai Seng Avenue #05-06
Print Media Hub @ Paya Lebar iPark
Singapore 534167
Tel: +65 67 466 990
Fax: +65 67 461 980
info@carlogavazzi.com.sg

MALAYSIA

Carlo Gavazzi Automation (M) SDN. BHD.
D12-06-G, Block D12,
Pusat Perdagangan Dana 1,
Jalan PJU 1A/46, 47301 Petaling Jaya,
Selangor, Malaysia.
Tel: +60 3 7842 7299
Fax: +60 3 7842 7399
sales@gavazzi-asia.com

CHINA

Carlo Gavazzi Automation
(China) Co. Ltd.
Unit 2308, 23/F.,
News Building, Block 1, 1002
Middle Shennan Zhong Road,
Shenzhen, China
Tel: +86 755 83699500
Fax: +86 755 83699300
sales@carlogavazzi.cn

HONG KONG

Carlo Gavazzi Automation
Hong Kong Ltd.
Unit 3 12/F Crown Industrial Bldg.,
106 How Ming St., Kwun Tong,
Kowloon, Hong Kong
Tel: +852 23041228
Fax: +852 23443689

OUR COMPETENCE CENTRES AND PRODUCTION SITES

DENMARK

Carlo Gavazzi Industri A/S
Hadsten

MALTA

Carlo Gavazzi Ltd
Zejtun

ITALY

Carlo Gavazzi Controls SpA
Belluno

LITHUANIA

Uab Carlo Gavazzi Industri Kaunas
Kaunas

CHINA

Carlo Gavazzi Automation (Kunshan) Co., Ltd.
Kunshan

HEADQUARTERS

Carlo Gavazzi Automation SpA
Via Milano, 13
I-20020 - Lainate (MI) - ITALY
Tel: +39 02 931 761
info@gavazziautomation.com



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