



SUCO 0533 ELECTRONIC PRESSURE SWITCH

053325141B011

NPN output (Low Side), NC, 0-25 Bar, G 1/4 – DIN EN ISO 1179-2, Cable connection

- One Switching Output
- Stainless Steel & Titanium Wetted Parts
- Silicon-On-Sapphire Technology
- Factory Set



PRODUCT DESCRIPTION

TECHNICAL DATA

GENERAL DATA

Adjustment range max	25 bar
Adjustment range min	0 bar
Electrical connection	Embedded 2m cable
Process connection	G1/4
Function	Normally Closed (SPST)
Output	NPN
Burst pressure	200 bar
Pressure max	100 bar

TEMPERATURE & MATERIALS DATA

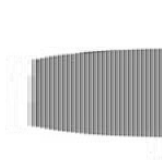
Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

ADDITIONAL DATA

Supply voltage dc max	32 V DC
Supply voltage dc min	9.6 V DC
Pressure rise	≤ 5,000 bar/s
Switching time	< 2 ms
Switching point adjustment range	2 ... 100 % of the nominal pressure range Full Scale (FS), programmable at factory
Weight	135 g

SAFETY & APPROVALS

IP class	IP67
Hysteresis	2..99.8% of nominal pressure range (full scale), programmable at factory
Shock resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
Vibration resistance	20g; 4..2000 Hz sine wave, DIN EN 60068-2-6
EMC	EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007
Accuracy	±0.5 % of adjustment range (Full scale) at room temperature
Long term stability	±0.1 % of adjustment range (full scale) per year
Mechanical life expectancy	10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure
Repeatability	±0.1 % full scale



DIN EN 175305-803-A

Pin	Assignment
1	Ctrl
2	Out
3	Ctrl
4	Out

PS

PS1

PS2

PS3

PS4

PS5

PS6

PS7

PS8

PS9

PS10

PS11

PS12

PS13

PS14

PS15

PS16

PS17

PS18

PS19

PS20

PS21

PS22

PS23

PS24

PS25

PS26

PS27

PS28

PS29

PS30

PS31

PS32

PS33

PS34

PS35

PS36

PS37

PS38

PS39

PS40

PS41

PS42

PS43

PS44

PS45

PS46

PS47

PS48

PS49

PS50

PS51

PS52

PS53

PS54

PS55

PS56

PS57

PS58

PS59

PS60

PS61

PS62

PS63

PS64

PS65

PS66

PS67

PS68

PS69

PS70

PS71

PS72

PS73

PS74

PS75

PS76

PS77

PS78

PS79

PS80

PS81

PS82

PS83

PS84

PS85

PS86

PS87

PS88

PS89

PS90

PS91

PS92

PS93

PS94

PS95

PS96

PS97

PS98

PS99

PS100

PS101

PS102

PS103

PS104

PS105

PS106

PS107

PS108

PS109

PS110

PS111

PS112

PS113

PS114

PS115

PS116

PS117

PS118

PS119

PS120

PS121

PS122

PS123

PS124

PS125

PS126

PS127

PS128

PS129

PS130

PS131

PS132

PS133

PS134

PS135

PS136

PS137

PS138

PS139

PS140

PS141

PS142

PS143

PS144

PS145

PS146

PS147

PS148

PS149

PS150

PS151

PS152

PS153

PS154

PS155

PS156

PS157

PS158

PS159

PS160

PS161

PS162

PS163

PS164

PS165

PS166

PS167

PS168

PS169

PS170

PS171

PS172

PS173

PS174

PS175

PS176

PS177

PS178

PS179

PS180

PS181

PS182

PS183

PS184

PS185

PS186

PS187

PS188

PS189

PS190

PS191

PS192

PS193

PS194

PS195

PS196

PS197

PS198

PS199

PS200

PS201

PS202

PS203

PS204

PS205

PS206

PS207

PS208

PS209

PS210

PS211

PS212

PS213

PS214

PS215

PS216

PS217

PS218

PS219

PS220

PS221

PS222

PS223

PS224

PS225

PS226

PS227

PS228

PS229

PS230

PS231

PS232

PS233

PS234

PS235

PS236

PS237

PS238

PS239

PS240

PS241

PS242

PS243

PS244

PS245

PS246

PS247

PS248

PS249

PS250

PS251

PS252

PS253

PS254

PS255

PS256

PS257

PS258

PS259

PS260

PS261

PS262

PS263

PS264

PS265

PS266

PS267

PS268

PS269

PS270

PS271

PS272

PS273

PS274

PS275

PS276

PS277

PS278

PS279

PS280

PS281

PS282

PS283

PS284

PS285

PS286

PS287

PS288

PS289

PS290

PS291

PS292

PS293

PS294

PS295

PS296

PS297

PS298

PS299

PS300

PS301

PS302

PS303

PS304

PS305

PS306

PS307

PS308

PS309

PS310

PS311

PS312

PS313

PS314

PS315

PS316

PS317

PS318

PS319

PS320

PS321

PS322

PS323

PS324

PS325

PS326

PS327

PS328

PS329

PS330

PS331

PS332

PS333

PS334

PS335

PS336

PS337

PS338

PS339

PS340

PS341

PS342

PS343

PS344

PS345

PS346

PS347

PS348

PS349

PS350

PS351

PS352

PS353

PS354

PS355

PS356

PS357

PS358

PS359

PS360

PS361

PS362

PS363

PS364

PS365

PS366

PS367

PS368

PS369

PS370

PS371

PS372

PS373

PS374

PS375

PS376

PS377

PS378

PS379

PS380

PS381

PS382

PS383

PS384

PS385

PS386

PS387

PS388

PS389

PS390

PS391

PS392

PS393

PS394

PS395

PS396

PS397

PS398

PS399

PS400

PS401

PS402

PS403

PS404

PS405

PS406

PS407

PS408

PS409

PS410

PS411

PS412

PS413

PS414

PS415

PS416

PS417

PS418

PS419

PS420

PS421

PS422

PS423

PS424

PS425

PS426

PS427

PS428

PS429

PS430

PS431

PS432

PS433

PS434

PS435

PS436

PS437

PS438

PS439

PS440

PS441

PS442

PS443

PS444

PS445

PS446

PS447

PS448

PS449

PS450

PS451

PS452

PS453

PS454

PS455

PS456

PS457

PS458

PS459

PS460

PS461

PS462

PS463

PS464

PS465

PS466

PS467

PS468

PS469

PS470

PS471

PS472

PS473

PS474

PS475

PS476

PS477

PS478

PS479

PS480

PS481

PS482

PS483

PS484

PS485

PS486

PS487

PS488

PS489

PS490

PS491

PS492

PS493

PS494

PS495

PS496

PS497

PS498

PS499

PS500

PS501

PS502

PS503

PS504

PS505

PS506

PS507

PS508

PS509

PS510

PS511

PS512

PS513

PS514

PS515

PS516

PS517

PS518

PS519

PS520

PS521

PS522

PS523

PS524

PS525

PS526

PS527

PS528

PS529

PS530

PS531

PS532

PS533

PS534

PS535

PS536

PS537

PS538

PS539

PS540

PS541

PS542

PS543

PS544

PS545

PS546

PS547

PS548

PS549

PS550

PS551

PS552

PS553

PS554

PS555

PS556

PS557

PS558

PS559

PS560

PS561

PS562

PS563

PS564

PS565

PS566

PS567

PS568

PS569

PS570

PS571

PS572

PS573

PS574

PS575

PS576

PS577

PS578

PS579

PS580

PS581

PS582

PS583

PS584

PS585

PS586

PS587

PS588

PS589

PS590

PS591

PS592

PS593

PS594

PS595

PS596

PS597

PS598

PS599

PS600

PS601

PS602

PS603

PS604

PS605

PS606

PS607

PS608

PS609

PS610

PS611

PS612

PS613

PS614

PS615

PS616

PS617

PS618

PS619

PS620

PS621

PS622

PS623

PS624

PS625

PS626

PS627

PS628

PS629

PS630

PS631

PS632

PS633

PS634

PS635

PS636

PS637

PS638

PS639

PS640

PS641

PS642

PS643

PS644

PS645

PS646

PS647

PS648

PS649

PS650

PS651

PS652

PS653

PS654

PS655

PS656

PS657

PS658

PS659

PS660

PS661

PS662

PS663

PS664

PS665

PS666

PS667

PS668

PS669

PS670

PS671

PS672

PS673

PS674

PS675

PS676

PS677

PS678

PS679

PS680

PS681

PS682

PS683

PS684

PS685

PS686

PS687

PS688

PS689

PS690

PS691

PS692

PS693

PS694

PS695

PS696

PS697

PS698

PS699

PS700

PS701

PS702

PS703

PS704

PS705

PS706

PS707

PS708

PS709

PS710

PS711

PS712

PS713

PS714

PS715

PS716

PS717

PS718

PS719

PS720

PS721

PS722

PS723

PS724

PS725

PS726

PS727

PS728

PS729

PS730

PS731

PS732

PS733

PS734

PS735

PS736

PS737

PS738

PS739

PS740

PS741

PS742

PS743

PS744

PS745

PS746

PS747

PS748

PS749

PS750

PS751

PS752

PS753

PS754

PS755

PS756

PS757

PS758

PS759

PS760

PS761

PS762

PS763

PS764

PS765

PS766

PS767

PS768

PS769

PS770

PS771

PS772

PS773

PS774

PS775

PS776

PS777

PS778

PS779

PS780

PS781

PS782

PS783

PS784

PS785

PS786

PS787

PS788

PS789

PS790

PS791

PS792

PS793

PS794

PS795

PS796

PS797

PS798

PS799

PS800

PS801

PS802

PS803

PS804

PS805

PS806

PS807

PS808

PS809

PS810

PS811

PS812

PS813

PS814

PS815

PS816

PS817

PS818

PS819

PS820

PS821

PS822

PS823

PS824

PS825

PS826

PS827

PS828

PS829

PS830

PS831

PS832

PS833

PS834

PS835

PS836

PS837

PS838

PS839

PS840

PS841

PS842

PS843

PS844

PS845

PS846

PS847

PS848

PS849

PS850

PS851

PS852

PS853

PS854

PS855

PS856

PS857

PS858

PS859

PS860

PS861

PS862

PS863

PS864

PS865

PS866

PS867

PS868

PS869

PS870

PS871

PS872

PS873

PS874

PS875

PS876

PS877

PS878

PS879

PS880

PS881

PS882

PS883

PS884

PS885

PS886

PS887

PS888

PS889

PS890

PS891

PS892

PS893

PS894

PS895

PS896

PS897

PS898

PS899

PS900

PS901

PS902

PS903

PS904

PS905

PS906

PS907

PS908

PS909

PS910

PS911

PS912

PS913

PS914

PS915

PS916

PS917

PS918

PS919

PS920

PS921

PS922

PS923

PS924

PS925

PS926

PS927

PS928

PS929

PS930

PS931

PS932

PS933

PS934

PS935

PS936

PS937

PS938

PS939

PS940

PS941

PS942

PS943

PS944

PS945

PS946

PS947

PS948

PS949

PS950

PS951

PS952

PS953

PS954

PS955

PS956

PS957

PS958

PS959

PS960

PS961

PS962

PS963

PS964

PS965

PS966

PS967

PS968

PS969

PS970

PS971

PS972

PS973

PS974

PS975

PS976

PS977

PS978

PS979

PS980

PS981

PS982

PS983

PS984

PS985

PS986

PS987

PS988

PS989

PS990

PS991

PS992

PS993

PS994

PS995

PS996

PS997

PS998

PS999

PS1000

PS1001

PS1002

PS1003

PS1004

PS1005

PS1006

PS1007

PS1008

PS1009

PS1010

PS1011

PS1012

PS1013

PS1014

PS1015

PS1016

PS1017

PS1018

PS1019

PS1020

PS1021

PS1022

PS1023

PS1024

PS1025

PS1026

PS1027

PS1028

PS1029

PS1030

PS1031

PS1032

PS1033

PS1034

PS1035

PS1036

PS1037

PS1038

PS1039

PS1040

PS1041

PS1042

PS1043

PS1044

PS1045

PS1046

PS1047

PS1048

PS1049

PS1050

PS1051

PS1052

PS1053

PS1054

PS1055

PS1056

PS1057

PS1058

PS1059

PS1060

PS1061

PS1062

PS1063

PS1064

PS1065

PS1066

PS1067

PS1068

PS1069

PS1070

PS1071

PS1072

PS1073

PS1074

PS1075

PS1076

PS1077

PS1078

PS1079

PS1080

PS1081

PS1082

PS1083

PS1084

PS1085

PS1086

PS1087

PS1088

PS1089

PS1090

PS1091

PS1092

PS1093

PS1094

PS1095

PS1096

PS1097

PS1098

PS1099

PS1100

PS1101

PS1102

PS1103

PS1104

PS1105

PS1106

PS1107

PS1108

PS1109

PS1110

PS1111

PS1112

PS1113

PS1114

PS1115

PS1116

PS1117

PS1118

PS1119

PS1120

PS1121

PS1122

PS1123

PS1124

PS1125

PS1126

PS1127

PS1128

PS1129

PS1130

PS1131

PS1132

PS1133

PS1134

PS1135

PS1136

PS1137

PS1138

PS1139

PS1140

PS1141

PS1142

PS1143

PS1144

PS1145

PS1146

PS1147

PS1148

PS1149

PS1150

PS1151

PS1152

PS1153

PS1154

PS1155

PS1156

PS1157

PS1158

PS1159

PS1160

PS1161

PS1162

PS1163

PS1164

PS1165

PS1166

PS1167

PS1168

PS1169

PS1170

PS1171

PS1172

PS1173

PS1174

PS1175

PS1176

PS1177

PS1178

PS1179

PS1180

PS1181

PS1182

PS1183

PS1184

PS1185

PS1186

PS1187

PS1188

PS1189

PS1190

PS1191

PS1192

PS1193

PS1194

PS1195

PS1196

PS1197

PS1198

PS1199

PS1200

PS1201

PS1202

PS1203

PS1204

PS1205

PS1206

PS1207

PS1208

PS1209

PS1210

PS1211

PS1212

PS1213

PS1214

PS1215

PS1216

PS1217

PS1218

PS1219

PS1220

PS1221

PS1222

PS1223

PS1224

PS1225

PS1226

PS1227

PS1228

PS1229

PS1230

PS1231

PS1232

PS1233

PS1234

PS1235

PS1236

PS1237

PS1238

PS1239

PS1240

PS1241

PS1242

PS1243

PS1244

PS1245

PS1246

PS1247

PS1248

PS1249

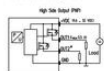
PS1250

PS1251</

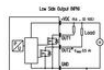


haz 221

Connection diagrams



Do not connect directly to each connector
NUT only for 0630



Do not connect directly to each connector
NUT only for 0630

Technical modifications and errors excepted.

DN EN 175301-803-A	M 12 - DN EN 61076-3-001 A	ISO 15715-A1-4-1	AMP Superseal																																								
																																											
<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Vcc</td></tr><tr><td>2</td><td>Out</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 60 / 70 mm² • Ø 10 mm Order number: 001	Pin	Assignment	1	Vcc	2	Out	3	Gnd	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Vcc</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 54 mm • Ø 11 mm Order number: 002	Pin	Assignment	1	Vcc	2	In	3	Gnd	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Vcc</td></tr><tr><td>2</td><td>In</td></tr><tr><td>3</td><td>Gnd</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 65 mm • Ø 11 mm Order number: 004	Pin	Assignment	1	Vcc	2	In	3	Gnd	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Out</td></tr><tr><td>2</td><td>Gnd</td></tr><tr><td>3</td><td>Vcc</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 71 mm • Ø 16 mm Order number: 003	Pin	Assignment	1	Out	2	Gnd	3	Vcc	4	Out
Pin	Assignment																																										
1	Vcc																																										
2	Out																																										
3	Gnd																																										
4	Out																																										
Pin	Assignment																																										
1	Vcc																																										
2	In																																										
3	Gnd																																										
4	Out																																										
Pin	Assignment																																										
1	Vcc																																										
2	In																																										
3	Gnd																																										
4	Out																																										
Pin	Assignment																																										
1	Out																																										
2	Gnd																																										
3	Vcc																																										
4	Out																																										
* without copper shield 4P - 15 mm																																											
DEUTSCH DT04-4P	DEUTSCH DT04-3P	Cable connection																																									
																																											
<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Gnd</td></tr><tr><td>2</td><td>Vcc</td></tr><tr><td>3</td><td>Vcc</td></tr><tr><td>4</td><td>Out</td></tr></table> IP67 • 38 mm • Ø 11 mm Order number: 008	Pin	Assignment	1	Gnd	2	Vcc	3	Vcc	4	Out	<table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>A</td><td>Vcc</td></tr><tr><td>B</td><td>Gnd</td></tr><tr><td>C</td><td>Out</td></tr></table> IP67 • 38 mm • Ø 11 mm Order number: 009	Pin	Assignment	A	Vcc	B	Gnd	C	Out	<table><tr><th>Color</th><th>Assignment</th></tr><tr><td>Red</td><td>Vcc</td></tr><tr><td>White</td><td>Out</td></tr><tr><td>Black</td><td>Gnd</td></tr></table> IP67 • 64 mm • 20 mm band width • Cable length = 2 m • Ø 11 mm Order number: 011		Color	Assignment	Red	Vcc	White	Out	Black	Gnd														
Pin	Assignment																																										
1	Gnd																																										
2	Vcc																																										
3	Vcc																																										
4	Out																																										
Pin	Assignment																																										
A	Vcc																																										
B	Gnd																																										
C	Out																																										
Color	Assignment																																										
Red	Vcc																																										
White	Out																																										
Black	Gnd																																										
																																											
Thread code: 01	Thread code: 02	Thread code: 03	Thread code: 04																																								
																																											
Thread code: 05	Thread code: 06	Thread code: 07	Thread code: 08																																								