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Celebrating 61 years in
business!



W. H. Cooke & Co. wishes each and every one of you a wonderful holiday season! Thank you for your business and loyalty. Here's to 2025!

Funnies at the end of this newsletter!

Holiday Hours

12/24/2024: 8am-2pm

12/25/2024: Closed

12/26/2024: Regular Business Hours

W. H. Cooke & Co. has been in business since 1963, serving our customers as a manufacturer of thermocouples, RTD's, and thermistors and a distributor of instrumentation and controls for temperature, pressure, level, flow, pH, RH, flame and gas detection and heaters.

Our product range includes chart recorders, chart paper, pens, paperless recorders, data loggers, pumps, valves, motors, industrial oils, solvents, PPE, and lubricants.

We offer calibration and repair services as well.

New Line Danfoss Drives



**W. H. Cooke & Co. is an authorized distributor for
Danfoss Drives. Please reach out for a quote!**
team@whcooke.com or call 717-630-2222

Pump	Fan	Grinder & Roller	Mixer	Dosing systems	Kneader	Centrifuge	Decanter	Extruder (Plastic)	Extruder (Aluminum)
									
Dryer	Compressor	Crusher	Material Handling & Packaging	Winding, undinding	Drilling	Kiln	Vertical and horizontal movement	Positioning, Synchronization	
									

Product offering

A VFD for **every application** and need.



VLT® AutomationDrive EZ FC 321
Designed for easy distribution



Designed for variable speed control of all asynchronous and permanent magnet motors, on any industrial machine or production line, the VLT® AutomationDrive EZ FC 321 helps you save energy, improve flexibility, and optimize processes.

Flexible and expandable
With a flexible modular design, the AutomationDrive EZ FC 321 is packed with standard features which can be expanded with plug-and-play options with additional features and fieldbuses. Safe Torque-Off is a standard safety feature that can be applied through hardwired safety.

Printed circuit board protection
The AutomationDrive EZ FC 321 conforms to class 3C2 (IEC 60721-3-3) as standard. If used in particularly harsh conditions, it is possible to order a special coating that complies with class 3C3. Drives above 100 HP come standard with 3C3.

Robust and reliable
VLT® AutomationDrive EZ FC321 is a proven performer in all industrial environments and grid voltages, including 690V. Enclosures are available up to NEMA 4X (depending on model), and integrated DC chokes and RFI filters in all models protect installations by minimizing harmonic distortion and electromagnetic interference. All drives are tested at full-load before leaving the factory.

Power range:
3 x 200 – 240 V 0.33 HP – 100 HP
3 x 380 – 480/500 V 0.5 HP – 200 HP
3 x 525 – 600 V 1 HP – 100 HP
3 x 525 – 690 V 1.25 HP – 200 HP

Easy set up and commissioning
The VLT® AutomationDrive EZ FC 321 is easy to set up and operate via the user-friendly graphical control panel, requires minimal maintenance, and delivers a market leading control solution which provides a fast return on investment with a highly competitive cost of ownership.

Smart Start provides wizard groups for several of the most common applications, including conveyors, pumps and fans, and setup with mechanical brake. With the settings to run these applications already in place, you can get your machine up and running faster, increasing your productivity.

Features	Benefits
Available	Maximum options
Ambient temperature 122°F without draining for most formats	Less need for cooling or overating
Available in Chassis NEMA 1 NEMA 12 NEMA 4X enclosures	Endorsement for all environments
Resistant to rain and fire	Low cost
Maintenance assistant	Maintenance calls for the FC and the application can be stored in the FC drive
OnOff cycling time	Performance, commissioning and operating cost
Plug-and-play technology	Probing feature to identify cooling fans
High bandwidth and associated speeds	Easy upgrade and changeover
Inhaler award winning VPP control panel	Reduced help times in the drive suggests a problem with the help medicines
Spindle lead and screw thread control with assignable motor encoders	Use fluently and aware time
Multiple languages	Fast, Easy, Secure connections
PLC functions	User-friendly
Modular design	Reduced engineering time to develop custom functions
Programming and Commissioning	Helps reduce setup time to develop and provides a faster time to install and configure devices
	Helps with configuration and programming using standard I/O cables and powerful free software tools
Intelligent	
Intelligent warning systems	Warning before controlled stop
Smart Logic Control	Reduces needed PLC capacity. Total number of outputs reduced. Number of blocks per program reduced
Safe stop / Safe Torque Off	Built-in safety can help you save total system costs, boost productivity and reduce downtime
ITo Safe Torque Off (FC 61800-5)	PLC 4 emergency 130V 138Vdc, Stop at FC 60204-1, PL 4, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707,

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Fieldbus options

- VLT® PROFIBUS DP MCA 101
- VLT® DeviceNet MCA 104
- VLT® PROFINET MCA 120
- VLT® Ethernet/IP MCA 121
- VLT® Modbus TCP MCA 122
- Modbus RTU is included as standard

I/O option

- VLT® 24 V External Supply MCB 107

Power options

- VLT[®] Brake resistors MCE 101
 - VLT[®] Sine-Wave Filters MCC 101
 - VLT[®] dv/dt Filters MCC 102
 - VLT[®] All-mode sine wave filter MCC 201
 - VLT[®] Common Mode Filter MCC 105
 - VLT[®] Advanced Harmonic Filters AHF 005/010
- Other accessories**
- NEMA 1/IP 21 Kit (convert chassis to NEMA 1)
 - Decoupling plate for fieldbus cables
 - USB connection cable to PC
 - LCP panel mounting kit
 - Mains disconnect and fuse option (NEMA 12/40)
 - USB Extension

Brake chopper (IGBT) option

Dissipates extra energy to a Brake Resistor from Regenerating motor loads.



Typecode

[illegible]

*D-frame or

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LEOCH/PPS21A1.2

ifications

Mains supply (L1, L2, L3)

Supply voltage	200 – 240V \pm 10%, 380 – 500V \pm 10%, 525 – 600V \pm 10%, 525 – 690V \pm 10%
Supply frequency	50/60 Hz
True Power Factor (λ)	0.92 nominal at rated load
Displacement Power Factor ($\cos \varphi$) near unity	(> 0.98)
Switching on input supply L1, L2, L3	Maximum 2 times/min.

Output data (U, V, W)

Output voltage	0-100% of supply voltage
Output frequency	0-590 Hz (1/3 - 200HP) 0-300 Hz (Flex mode)
Switching on/off output	Unlimited
Ramp times	1-3600 sec

Note: 160% current can be provided for 1 minute

Digital Inputs

Programmable digital inputs	4 (8)
Logic	PNP or NPN
Voltage level	0–24 VDC

Note: Two digital inputs can be reconfigured as digital output.

Analog input

Analog inputs	2
Modes	Voltage or current
Voltage level	-10 to +10 V (scalable)
Current level	0/4 to 20 mA (scalable)

Pulse/encoder inputs

Programmable pulse/encoder inputs	2
Voltage level	0–24 V DC (PNP positive/NPN negative logic)
Digital output	
Programmable digital/output outputs	2

Voltage level at digital/free

Analog output	
Programmable analog outputs	1
Current range	0/4–20 mA

Relay outputs

Cable lengths	
Max. motor cable lengths	500 ft (screened/armoured) 1000 ft (unscreened/unarmoured)

Environmental

Ambient temperature without desating: 13°F to 122°F
Operating ambient temperature when desating: -31°F to 140°F -31°F only possible with NEMA 4X enclosures

1 Week Lead Time for MOST Thermocouples & RTD's!

Since 1963

THERMOCOUPLES & RTDS



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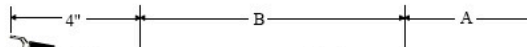






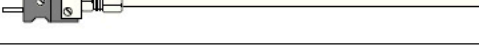
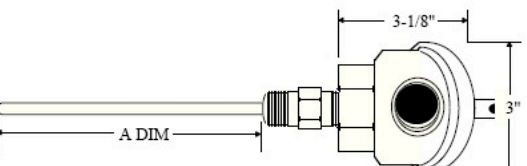
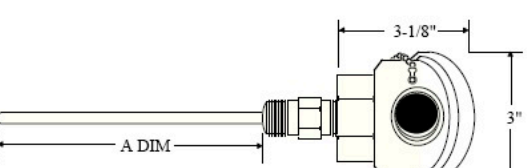

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LUNAR-PAK MINERAL INSULATED (BENDABLE) T/C'S

HOT JUNCTION TYPES			
	Grounded (G)	Ungrounded (UG)	Exposed (E)
FIG. 1	Thermocouple w/20 ga. fiberglass insulated lead wire.		
FIG. 2	Thermocouple w/20 ga. fiberglass insulated lead wire and stainless steel overbraid.		
FIG. 3	Thermocouple w/20 ga. fiberglass lead wire and terminated with male plug.		
FIG. 4	Thermocouple w/20 ga. fiberglass insulated lead wire and stainless steel overbraid and terminated with male plug.		
FIG. 5	Thermocouple w/20 ga. fiberglass insulated lead wire and terminated with female jack.		
FIG. 6	Thermocouple w/20 ga. fiberglass insulated lead wire and stainless steel overbraid and terminated with female jack.		
FIG. 7	Thermocouple terminated with male plug.		
FIG. 8	Thermocouple terminated with female jack.		
FIG. 9	Thermocouple terminated with hinged flip top cover weatherproof head and 1/2" x 1/2" NPT x 1-1/2" long 316 SS NPT mounting fitting brazed to sheath. For spring loading add "SL" to end of part number. Spring loaded type is not sealed from process and is generally used with a thermowell.		
NOTE: Screw cover head design is available at same price but must be requested otherwise flip top head will be supplied.			
FIG. 9-EP	Thermocouple terminated with explosion proof head - Same description as above except with screw cover explosion proof head assembly.		
FIG. 10-NPT	Replacement thermocouple element for figures 9 through 9-EP.		
Sheath is silver soldered to 1/2" NPT 316 SS MTG Nut.			

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W. H. Cooke & Co., Inc. Thermocouples & RTDs	ADAM Scale, Balance & Calibration Weights	AEROFLEX EPDM Pipe & Duct Insulation	AlpHa pH, ORP Conductivity	Antunes Air & Gas Pressure Switches
ANFIELD Precision Leveling Temperature Switches & Transmitters	APG Substation Products Group, Inc. Level & Pressure Sensors/Transmitters	ATHENA Precision Pressure Electromagnetic Controls	BACKER MARATHON Continuous & Recirculating	CAL Controls
CHROMALOX Industrial Heating & Heat Trace Solutions	COMARK Wireless Data Loggers	ControlAir Precision Pressure Electromagnetic Controls	Control Warehouse Flowmeters - Magnetic, Variable Volume, Orifice, Paddlewheel	Dalton Unique Split-Drain Control Valves
DATATRACK Digital Thermal Meters	DOX Positive Temperature Coefficient Self-Regulating Heating Elements	Dwyer Pressure, Flow, Level Sensors & Controls	EDWARDS Vacuum Pumps	ENCODER Encoder/Transmitter Encoder/Transmitter
EXTRECH Infrared Heat Guns, Electrical Specifications	FUTURE DESIGN Temperature Controls	GDS Corp Gas & Flame Detection	Gems Sensors & Controls	GIC Portable Gas Detection Instrumentation
GP-50 Wall Pressure & Temperature Transmitters	H-B Heat Exchangers	HTM Heat Exchangers	HTS Amplek	
Imada.com Force & Torque Measurement	INDEECO Instruments & Tubular Electric Heating Elements	INOR Temperature Transmitters	JOYCE Heaters for Ovens, Tanks & Containers	JENCO Laboratory & Industrial Instrumentation Temperature & pH
DUNGS Combustion Controls	KOBOLD Level, Pressure, Flow Instruments	LAUREL ELECTRONICS Electronics for Measurement, Control & Networking	LOVE Temperature Controllers	next thermal Industrial & Laboratory Level Controls
Novus Submerged Valves	MADGETECH Wireless Data Loggers	micronics Portable Clamp-On Flow Meters	MONARCH Data Loggers (Phosphor Replicators)	next thermal Industrial & Laboratory Level Controls
NOVUS In-Process, On-Site, In-Line Measurement, Control, Recording	Parlow Temperature Controls & Recorders	PRECISION DIGITAL Panel & Process Meters	PROCESS TECHNOLOGY Heat Process Heating & Cooling Equipment	Process Technology, Inc. Flame Safety
REOTEMP Thermocouples & Pressure Gauges/Transmitters	Sensorex Laboratory & Industrial Instrumentation Temperature & pH	setra	SIKA Electronic Weighing & Calibration Instruments	UNITHERM Industrial Insulation Market
VAISALA Humidity Transmitters	WARREN CONTROLS	WEST Control Solutions	WIKAI	

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Holiday Humor!





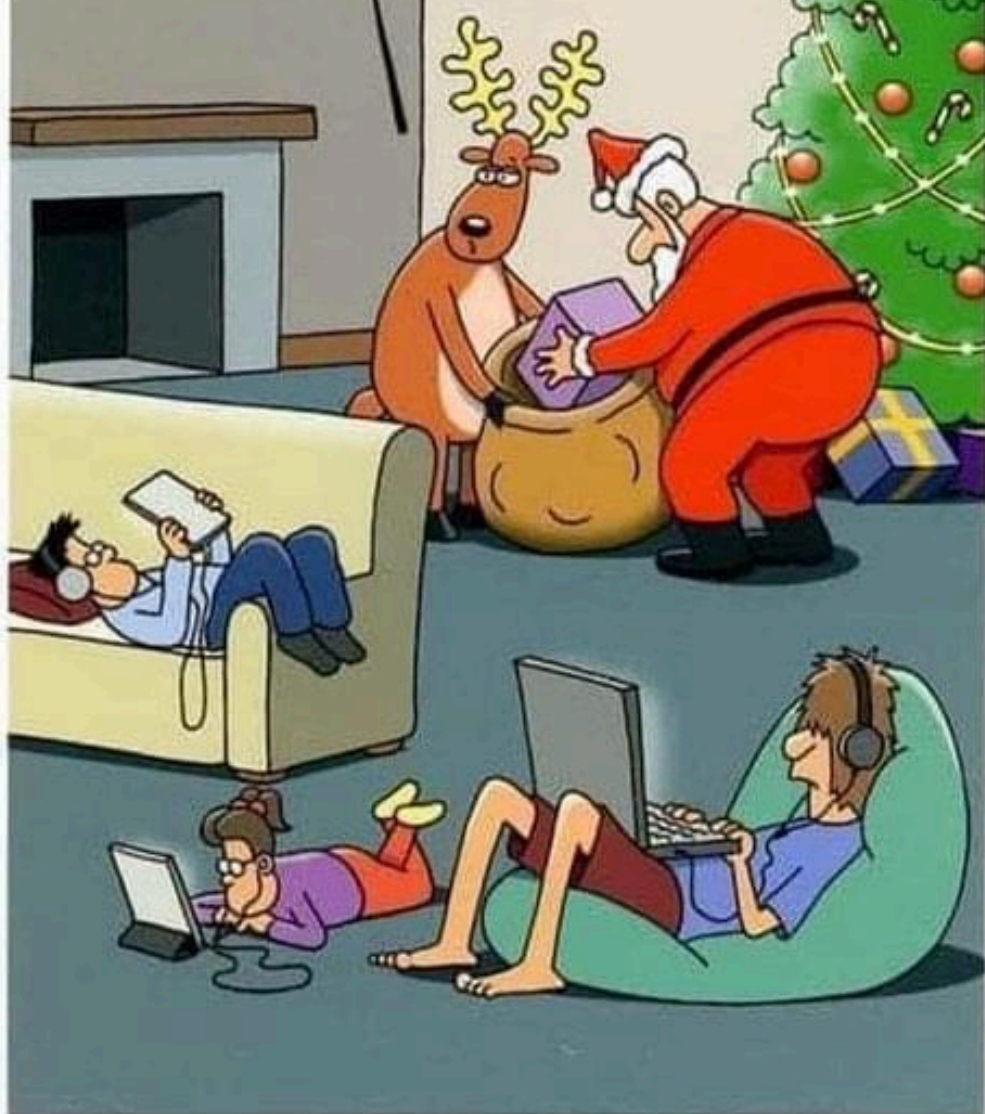


Elfie stick

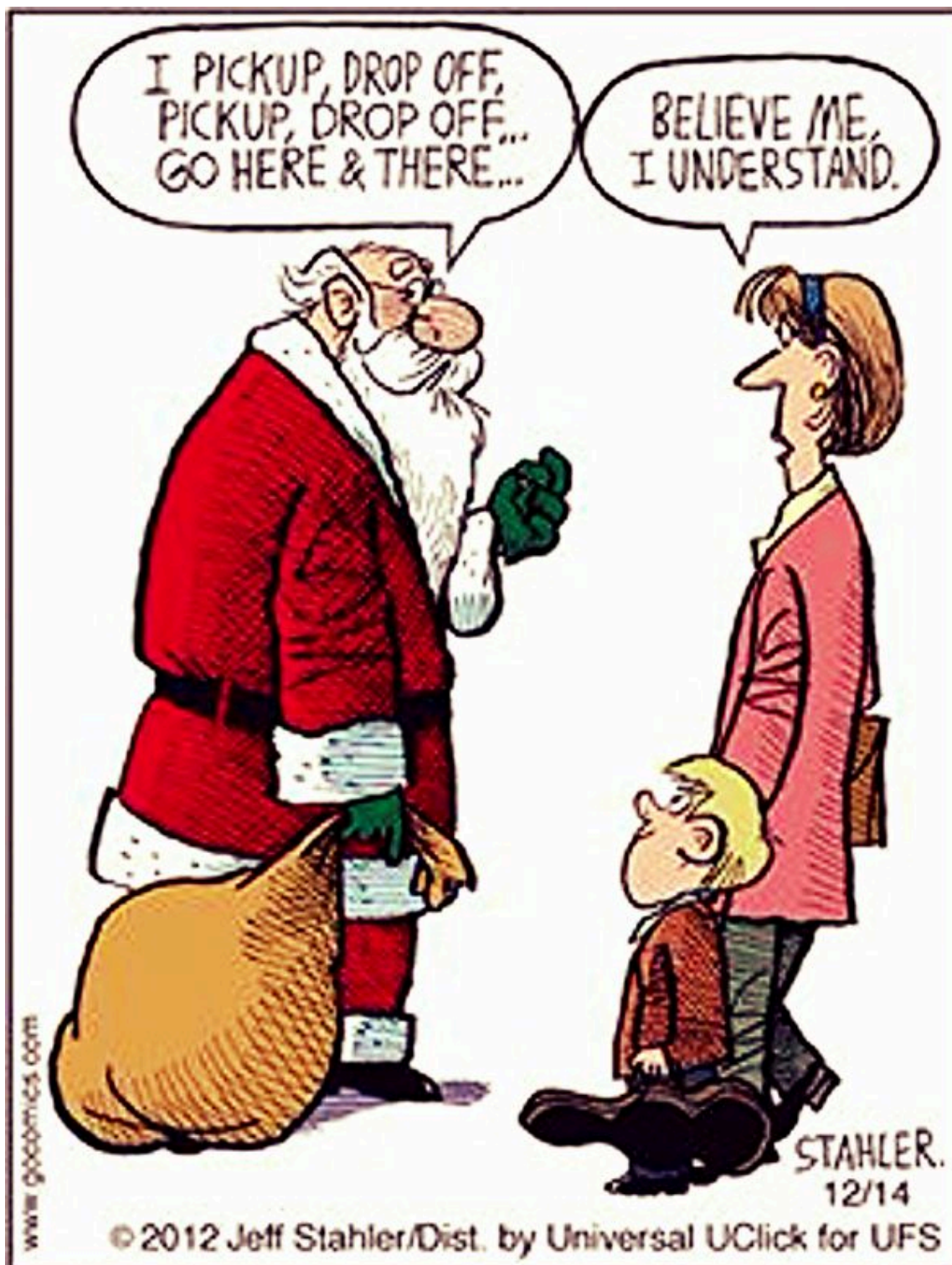


THAT WAS THE LAST YEAR SANTA
WOULD FORGET TO BRING HIS GLASSES

Sneaking into homes unnoticed
sure is a lot easier than it
used to be



whyatt



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